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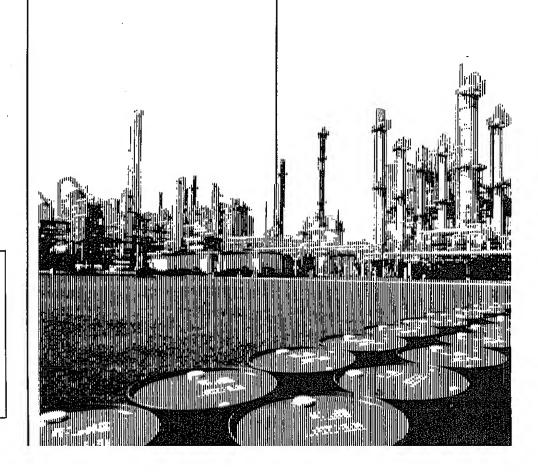
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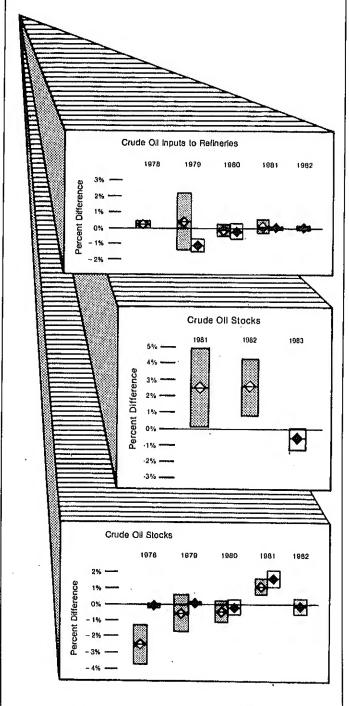




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This Month in the PSM

This issue of the Petroleum Supply Monthly features a review of "Timeliness and Accuracy of Selected Petroleum Data Series," beginning on page ix. The article updates an assessment of data accuracy that appeared in the April 1982 PSM and includes, for the first time, a discussion of weekly data accuracy.



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Petroleum Focus



Petroleum Supply Summary

		July		C	umulative Jan Through Jul	
Average Volume for Period (Million Barrels Per Day)	1983	1982	% Change	1983	1982	% Change
Total Product Supplied	14.8	14.8	- 0.3	14.9	15.5	- 3,9
Motor Gasoline	6.8	6.8	~ 0.1	6.5	6.5	- 0.2
Distillate Fuel Oil	2.3	2.1	10.6	2.6	2.8	- 5.6
Residual Fuel Oil	1.3	1.6	- 19.3	1.4	1.8	- 23.1
Crude Inputs to Refineries Crude Oil and Natural Gas	12.5	12.4	0.7	11.5	11.8	- 2.0
Liquids Production	10.2	10.2	0.1	10.2	10.2	0.3
Net Imports ¹	5.0	5.1	- 3.3	3.7	4.2	- 12.0
Net Crude Oll Imports ²	3.6	3.9	- 7.4	2.7	3.0	- 11.6
SPR imports	0.3	0.1	199.0	0.2	0.2	43.4
Net Product Imports	1.1	1.1	- 6.6	0.9	1.0	- 13.8
Crude Oll Stock Withdrawai ²	.28	- 0.05		0.02	0.08	_
Product Stock Withdrawal	1.01	- 0.93		0.30	0.52	
Stocks at End of Period (Million Barrels)						
Crude Oil ²	347	346	NM			
Motor Gasoline ³	228	226	NM			
Distillate Fuel Oil	130	148	NM			
Residual Fuel Oil	48	59	NM			
Total Product	743	781	NM			
SPR	341	267	27.5			
Total	1,431	1,393	NM			

Gross Imports of crude oil including Strategic Petroleum Reserve (SPR) and petroleum products less exports of crude oil and petroleum products.

*Excluding SPR.

Including blending components.

NM = Not meaningful due to new stock basis.

Note: Percent changes are based on unrounded values. July 1983 data are estimates based on weekly data, except for export and Natural Gas Liquids Production estimates which are June 1983 monthly values. Totals may not be equal to sum of components due to Independent rounding.

Source: Energy Information Administration, Petroleum Supply Monthly, August 1983.



Timeliness and Accuracy of Selected Petroleum Supply Data Series

The Energy Information Administration (EIA) collects and publishes statistics regarding the supply and movement of crude oll and petroleum products in the United States. EIA's Petroleum Supply Reporting System (PSRS) measures supply and throughput at various points in the petroleum supply flow, from the production of crude oil to the distribution of petroleum products. The relationship of the PSRS survey forms to the petroleum industry is summarized in Figure 1. The PSRS comprises the most complete, detailed collection of petroleum supply data available, and includes some information which has been collected and published by the Government since 1918.1 Currently, EIA publishes data from the PSRS in the Weekly Petroleum Status Report (WPSR), the Petroleum Supply Monthly (PSM), the Petroleum Supply Annual (PSA), the Monthly Energy Review (MER), and the Annual Energy Review

(AER). This article discusses the accuracy of EIA's petroleum supply data, updating the assessment that appeared in the April 1982 PSM and presenting new material on the accuracy of weekly data.

Petroleum Supply Data

Petroleum supply incorporates domestic production, foreign trade, refinery operations, stocks, and transportation. To simplify and to improve consistency in its petroleum supply data, EIA recently integrated its annual, monthly, and weekly petroleum supply surveys into the PSRS, which conforms to the petroleum supply network (see Figure 1).

'See Explanatory Notes In this publication for detailed information on the data collections included in the Petroleum Supply Reporting System and their relation to Individual segments of the petroleum industry.

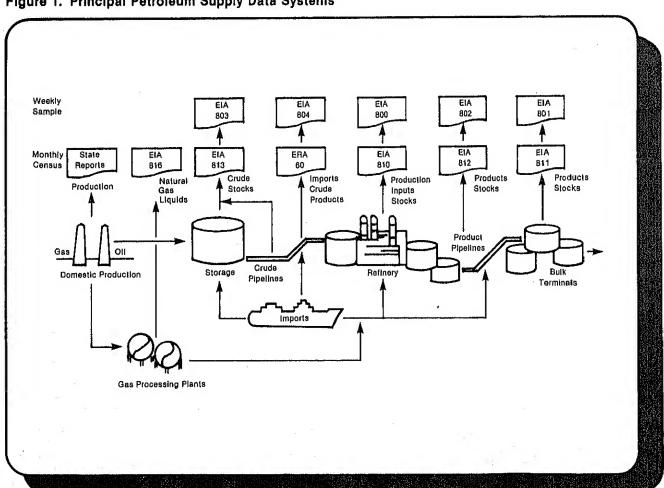


Figure 1. Principal Petroleum Supply Data Systems

Source: Energy Information Administration

EIA's crude oil production data are based on information collected by State agencies and the U.S. Geological Survey. Preliminary estimates are supplied by EIA's Dallas Field Office, while final monthly values are supplied by State agencies.² The remainder of the data sources shown on Figure 1 are EIA surveys. EIA's weekly surveys collect data on refinery inputs; inventories and imports of crude oil; and production, inventories, and Imports of major petroleum products. These data are published 6 days after the close of the report week In the WPSR. EIA's monthly survey forms collect more extensive data based on company accounting records. These data are published in preliminary form in the PSM, 60 days after the close of the report month. Final data, reflecting any necessary corrections, are published in the PSA, 6 months after the close of the calendar year. Based on this publication schedule, it is possible to assess the accuracy of the data as a function of the time following the report month.3

During the past 18 months EIA has made changes to its survey forms and definitions, survey processing systems, and timing and format of publications. Final monthly data for 1982 were published in June 1983, in the PSA, thereby allowing an evaluation of the impact of survey system changes on the accuracy of monthly petroleum supply data. In addition, the preliminary data for the early months in 1983 have been published in the PSM, thereby allowing a preliminary evaluation of the impact of the major changes which were made in the weekly system beginning in January 1983.

Factors Affecting Accuracy

For any survey, the accuracy of published data depends on two components: survey design and data quality. Survey design has three elements: the frame, the survey forms (Including definitions) and the sample. Each element has its own inherent potential for error. Data quality can be defined as the extent of the agreement between the data that are published, and the data that would be published, if all scheduled respondents reported on time, with no errors, and if no errors were made in entering and processing company submissions. Data quality also has three potential sources for error: non-response, errors in submitted data, and errors in data entry. All six of these error sources are described below.

Survey Frame

The frame for a survey is a list of all companies identified as members of the industry to be surveyed. If the frame is incomplete, i.e., if some companies which are members of the industry are not on this list, the result is an undercounting of the items being measured. The frames for EIA's weekly and monthly surveys consist of all:

 Refiners and mechanical blenders of motor gasoline

- Bulk terminals with capacity of 50,000 barrels or more, or which receive product by tanker, barge or pipeline
- Petroleum product pipellnes
- Storers of crude oil of 1,000 barrel or more
- · Licensed importers or importers of record
- Companies that ship petroleum products from Puerto Rico to the United States

• Operators of natural gas plants and fractionators. The frames are continually reviewed and updated to minimize undercounting; however, births and deaths among firms in the petroleum industry are difficult to track in a timely manner. For this reason, EIA survey frames periodically receive a detailed analysis and review to assure completeness. A recent review indicated that the refinery frame was complete, but frames for the bulk terminals, pipelines and crude oil stockholders needed to be augmented. As a result, data from newly identified firms were included in EIA data series beginning in January 1983. Augmenting the frame increased total inventories reported by approximately 2.3 percent.

At present, the only known frame problem concerns import surveys. The imports licensing system, currently operated by the Energy Regulatory Administration to track imports of most petroleum products, is the source for EIA's imports frame. For products which require import licenses, the frame is complete. However, firms that import only unlicensed products, e.g., liquefied petroleum gases and asphalt, are not required to have licenses and may not be in EIA's frame. Therefore, EIA relies on Census Bureau data for imports of unlicensed petroleum products.

Survey Forms and Definitions

Data describing industry operations are obtained from survey respondents who submit completed survey forms. Errors can result if requested data do not adequately describe some aspect of the industry. For example, the refinery survey was revised in January 1981 to obtain greater detail on inputs of petroleum products in order to correct undercounting of products that were reprocessed within refineries. Other errors can result if

²See Explanatory Note 3 in this publication for a detailed discussion of domestic crude oil production data and estimation procedures.

Each year the Energy Information Administration assesses the accuracy of its data series. See An Assessment of the Quality of Principal Data Series of the Energy Information Administration, DOE/EIA-0292(82), April 1983, for the assessment of 1982 data series. Assessments relating to petroleum supply data collections from 1977 through 1981 were discussed in the Petroleum Supply Monthly, DOE/EIA-0109 (82/04), April 1982.

^{&#}x27;See article entitled "Petroleum Supply Reporting Systems Overview," Petroleum Supply Monthly, March 1983, for details concerning that analysis and resultant changes to published data.

the definitions are ambiguous, leading to varying interpretations by respondents. The PSRS survey forms were revised to improve consistency and a single set of definitions was created for all surveys effective January 1983. This revision greatly improved the comparability of monthly and weekly data.

Sampling Error

The sample is a list of those companies in the frame which were selected to be surveyed. Some error, called sampling error, is always expected in providing estimates for firms not included in the sample. Sampling error is not germane to EIA monthly surveys, because all companies in the frames are surveyed. Weekly surveys, however, are all based on samples, and sampling error does occur. This accounts for part of the difference between published weekly totals and final annual data.

EiA's weekly samples are cut-off samples. In a one-product cut-off sample, companies are ranked in descending order based on the volumes reported for that product on the monthly surveys during the previous year. Companies reporting the largest volumes are selected until the aggregated product volume of sampled companies amounts to 90 percent of the total. Because weekly surveys cover more than one product and reporting companies are located in different geographic regions, a variation of the cut-off sampling procedure was developed to assure at least 90 percent coverage of each product in each region, while surveying a minimum number of companies.

Nonresponse:

Occasionally, survey responses are not received in time to be included in published statistics. Imputation, a method of estimating the quantity associated with non-respondents, is used to reduce this type of error. Imputation does not eliminate error, however, because the imputed value is only an estimate for missing data.

The PSRS monthly surveys, except for imports, use the data reported in the previous month as the imputed value in the present month. Because the monthly surveys have excellent response rates, generally over 99 percent, little imputation is necessary.

There is no imputation for nonresponse to the monthly import surveys at the present time. This is the principal reason for the systematic underreporting of preliminary monthly imports data.⁵

A new weekly processing system was implemented in January 1983. It includes imputation for nonresponse based on the history of a company's previous responses. The procedure is used for all weekly surveys, including imports. For products the company usually does not report, a zero value is used. For those products the firm does report, an exponentially smoothed average of its past responses is used. This procedure proved to be quite accurate and justified moving the publication of the WPSR forward by 1 day in July 1983.

Data Submissions

Occasionally there are mistakes in data submitted by respondents. Sometimes companies submit their forms before their records are finalized. This is the case with the weekly forms, on which companies provide their best estimates. Sometimes this is also true of monthly data. This is a major source of revisions to EIA published monthly statistics. Errors resulting from misunderstanding of the forms or the instructions are addressed in the discussion of survey forms and definitions on page x. Errors by respondents in figures submitted on survey forms can often be detected and resolved by editing procedures, as discussed in the following section.

Data Entry

Data entry into computer files presents another opportunity for error. Depending on their magnitude, some of these errors can be identified and corrected by automated edit procedures that check current data for consistency with past data and for internal consistency, e.g., totals equal to the sums of the parts. Both EIA's monthly and weekly survey systems have editing capabilities. The weekly system relies more strongly on automated edits to identify errors because of the short time between data entry and publication. The monthly system has automated edits, but relies strongly on manual reviews to identify errors. Automated edits based on historical data are under development for the monthly surveys.

Survey and Publication Timing

The weekly reporting period runs from 7 a.m. on Friday to 7 a.m. on the following Friday. Companies are required to submit data for a report week to EIA by 5:00 p.m. on the Monday following the close of the report week.

On July 14, 1983, EIA began to publish weekly data in the WPSR on the Thursday following the report week. Prior to that time, the WPSR was published on the Friday following the report week. This change requires completion of final data estimates one day earlier. Firms were encouraged to respond earlier. Because of

[&]quot;Problems associated with imputation for nonresponse in the imports surveys are discussed in the "imports" section of this article beginning on page xill.

their cooperation and improved procedures for nonresponse imputation, it was possible to move the publication date forward without a significant change in accuracy.

For a calendar report month, companies are required to submit responses within 20 days following the report period. Because these submissions are to be based on company records, revisions are required if errors of more than 5 percent from the original submissions are found.

In March 1982, the PSM consolidated data that were previously published in four EIA monthly petroleum publications, including the Monthly Petroleum Statistics Report (MPSR) and the Monthly Petroleum Statement (MPS). The PSM now publishes those data 60 days after the end of a report month. Prior to the PSM consolidation, data appeared in the MPSR 60 days after the end of a report month and in the MPS 90 days after the end of the report month. This provided "snapshots" of the same data base at different points In time. The MPS time schedule allowed revisions to reflect company resubmissions and corrections, inclusion of data from companies that were nonrespondents at the last publication, and correction of data processing errors. While the time lag for publication of monthly data in the PSM is virtually the same as in the MPSR, the PSM presents the more comprehensive statistics previously provided in the MPS.

Final monthly data are now published in the Petroleum Supply Annual (PSA) 6 months after the close of the calendar year. Prior to the March 1982 consolidation, final data were published in the Annual Petroleum Statement (APS) 9 months after the close of the calendar year.

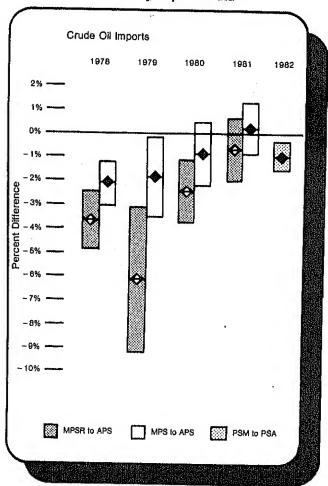
Data Accuracy as a Function of Time

It has been shown that data accuracy Improves with the length of time since the report period. This raises questions concerning the quality of EIA's monthly data, because there is now only one publication and it is published early. Using final 1982 data published in the PSA, EIA's Petroleum Supply Division evaluated the accuracy of the 1982 data previously published in the PSM, and compared it with the observed accuracy in the MPSR and the MPS for 1978 through 1981.

Revisions from preliminary to final monthly data as a percent of the final value in EIA's annual petroleum supply publications are illustrated in Figures 2, 3, and 4 by bars based on the mean and the standard deviation of percent differences between preliminary and final monthly data.

The percent difference for a month is the difference between the preliminary value and the final value multiplied by 100 and divided by the final value. The mean is the average of the percent differences for the year. A diamond locates the mean on each bar. The standard deviation is the square root of the sum of the squared percent differences for the year divided by 11. The end points of the bars are equal to the mean plus and minus one standard deviation.

Figure 2. Comparison of Preliminary and Final Monthly Imports Data



Note: Diamond = Mean

Bar = Mean ± One Standard Deviation

Source: Energy Information Administration

^{*}See Energy Information Administration, Assessment of the Accuracy of Principal Data Series of the EIA, DOE/EIA 0292. June 1981, for a detailed discussion.

Prior to 1982 the darker bar in each pair represents a comparison of preliminary values from the MPSR and final values from the APS. The lighter bar represents preliminary values from the MPS and final values from the APS. For 1982, the single light dotted bar represents a comparison of preliminary values from the PSM and final values from the PSM. The fact that the light bars are generally smaller and centered about zero lilustrate that accuracy improved as data were received from nonrespondents to the MPSR, resubmissions, and data corrections were incorporated into data published 30 days later in the MPS.

The bars illustrate bias in the preliminary data in the event that they are centered well above or below the 0-percent line. Bias indicates a systematic difference between preliminary and final data series, i.e., one series is consistently higher or lower than the other. Causes of systematic differences can usually be identified. The length of a bar illustrates the variability of the difference between the two series. If the ends of the bar were at plus and minus 1 percent, for most months absolute values of the difference between the two series was less than 1 percent.

Monthly Data Assessment

Highlights of preliminary and final monthly data comparisons are presented below. Figure 2 illustrates changes in accuracy for crude oil imports data over a 5-year period from 1978 through 1982. Figure 3 summarizes changes in the accuracy of data on crude oil inputs to refineries, production of motor gasoline, production of distillate fuel oil and production of residual fuel oil for the same years. Figure 4 summarizes the changes in data accuracy for stocks of crude oil, motor gasoline, distillate fuel oil, and residual fuel oil.

Imports

Figure 2 shows that preliminary estimates in the crude oil import series tend to be low. Most of the bars are centered around negative values. The length of the bars also shows a great deal of variability in the revisions, i.e., from month to month the revisions will fluctuate from being well above the mean to well below the mean.

The preliminary estimates are low because there is no effective imputation procedure for monthly imports. The amount imported by smaller companies, the most frequent nonrespondents, in any given month is likely to be zero. Thus, if a smaller company falls to submit a monthly report on time, the best estimate for the quantity it imported is zero. For this reason, nonrespondents are assumed to have no imports, even though the aggregate of all nonrespondents might contribute a quantity greater than zero. Lack of an imputation procedure contributes to the understatement of imports by preliminary data.

The revisions to imports data are large because final company imports records are not available until forms have been returned by the U.S. Customs Service (USCS).

PSM data for 1982 crude oil imports showed a significant improvement over the MPSR data published previously at the same time interval, as well as improvement over the MPS data for most years. The 1982 preliminary data have a bias of about —1 percent, but the magnitude of revisions are smaller. The improvement can be attributed to the use of USCS data available through the Petroleum License Decrementing System (PLDS) to identify major importers and validate their data. Despite differences in product definition and date of importation between EIA surveys and USCS forms, the availability and use of customs data has helped EIA to improve the quality and timeliness of imports data.

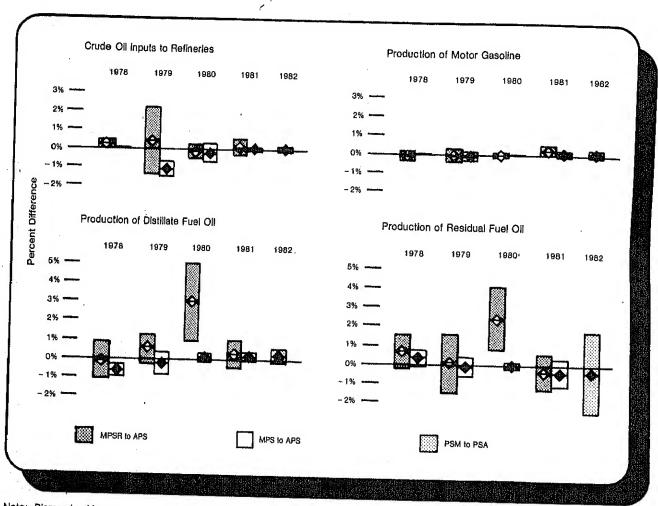
Beginning in January 1983, smaller companies were required to file an EIA imports survey form only for months in which they had import activity. This change reduced both respondent and processing burden, and has been made possible by the use of PLDS data to identify active importers, thus controlling nonresponse error.

Refinery Inputs and Production

Refinery inputs and production data are derived solely from the refinery survey form. Figure 3 summarizes the historical accuracy of preliminary data compared to final data for crude oil refinery inputs, and production of motor gasoline, distillate fuel oil and residual fuel oil.

Except for residual fuel oil, the accuracy of the 1982 PSM data was comparable to the accuracy of the MPS data in previous years. In addition, revisions from the PSM to the PSA were less than 0.4 percent In every month for crude inputs and motor gasoline production. For distillate production and residual production the largest revisions occurred in January and February 1982, the beginning of the new publication schedule. For distillate the largest error was 24 thousand barrels per day (0.92 percent) and for residual fuel oil the largest error was - 52 thousand barrels per day (- 4.4 percent). The bar for residual fuel oil production is large because 3 months in 1982 (January, February and August) had 4.0 percent revision errors. For the remaining months, revisions were less than 0.35 percent. The large errors for residual fuel oil were due to imputations for one company. That company filed both its January and February data in March 1982, and was also late filing its August data. Both of these time periods coincided with large changes in its residual fuel oil production patterns, increasing production by over 100 percent early in the year, and cutting production by more than 50 percent in August. No imputation procedure can anticipate such departures from historical reporting patterns.

Figure 3. Comparison of Preliminary and Final Monthly Inputs and Production Data



Note: Diamond = Mean

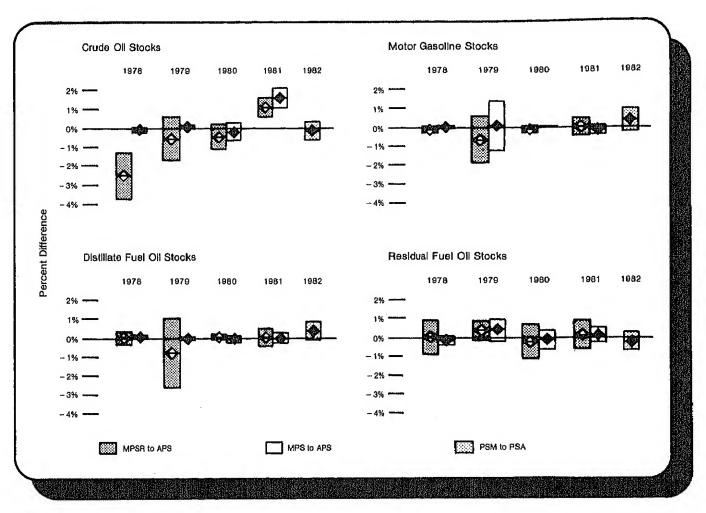
Bar = Mean ± One Standard Deviation Source: Energy Information Administration

Stocks

Crude oil stocks data are derived from the refinery form and from the crude oil stockholders form. Product stocks are derived from the refinery form, the bulk terminal form, and the product pipeline form. Figure 4 illustrates comparisons of preliminary and final data for inventories of crude oil, motor gasoline, distillate fuel oil, and residual fuel oil for 1978 through 1982.

For crude oil stocks, the revision error from PSM to PSA in 1982 was consistent with the revision error from MPS to APS in previous years. While there was a relatively large revision of 1.4 percent for 1 month in 1982, the revision error in all other months was less than 0.6 percent.

Figure 4. Comparison of Preliminary and Final Monthly Stocks Data



Note: Diamond = Mean

 $\mbox{Bar} = \mbox{Mean} \ \pm \mbox{ One Standard Deviation}$ Source: Energy Information Administration

Overreporting of crude oil stocks in preliminary 1981 publications was attributable to respondents' problems in interpreting changes to EIA survey forms in January 1981. Prior to that time, companies reported crude oil stocks at refineries on both the refinery form and on the crude oil stockholders form. Only the data from the

crude oil stockholders form were used for publication. In 1981, data on refinery crude oil stocks were no longer to be included on the crude oil stockholders form. Double counting occurred for a time, because several companies continued reporting refinery stocks on both forms.

For stocks of motor gasoline and distillate, the revision error from the MPS to the APS for most years has been extremely small. Except for 1979, the revision error from MPSR to APS for these products was within about 0.5 percent. In 1982 the revision from the PSM to the PSA was somewhat larger than in previous years. For motor gasoline there was a revision of 2.1 percent in February 1982, when an incorrect imputed value was entered for that month because of a clerical error. Because the revision error was less than 0.7 percent in the remaining months, omitting that 1 month from the statistics would bring the bar more in line with the accurancy levels of previous MPSR data.

For distillate fuel oil, the PSM to PSA bar for 1982 is comparable with most MPSR to APS bars. In 1982, most of the revisions were made to the data for the first 6 months of the year. In the last 6 months, revisions were all less than 0.15 percent.

For residual fuel oil stocks, the 1982 PSM to PSA accurancy is in line with that of previous years. Much of the difference in 1982 was due to an error of 1.4 percent in March, attributable to mistakes in data entry. For other months the revision error was 0.7 percent or less.

Weekly Data

Figures 5, 6, and 7 illustrate comparisons between weekly and monthly published data. These charts illustrate the same slates of products as Figures 2, 3, and 4.

Weekly data were compared to PSA final data for 1981 and 1982. To provide an early indication of the impact of systems changes on WPSR accuracy, the weekly data were also compared to PSM preliminary data for 4 months of 1983.

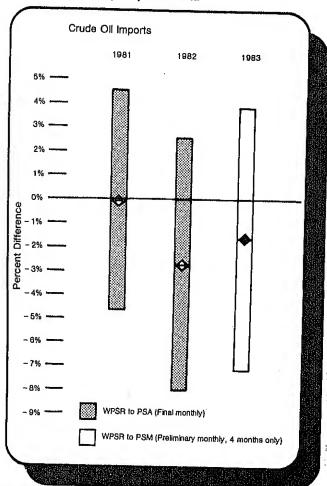
During 1982, a major effort was undertaken to improve the quality of the weekly data. These data, based on estimates provided by a sample of the companies, were intended to serve primarily as a leading indicator of the monthly data and were never expected to have the same level of accuracy. The primary focus of the improvement effort was to eliminate the systematic biases illustrated in Figures 5, 6, and 7.

Several interim changes were made in estimation programs in May 1982. More sophisticated edit and imputation procedures were included in the weekly processing system in January 1983. Survey forms were redesigned to improve comparability with the monthly forms. Also, individual companies are being contacted, when their weekly data show systematic differences from their monthly data. These differences are generally due to misunderstandings of instructions or definitions, or problems in classifying some products at different points in time. For example, residual fuel oil might be classified as an unfinished oil or as residual

fuel oil depending on whether it is to be further processed or sold. Ambiguities of this type are inherent in industry operations, and will be especially apparent in comparing monthly and weekly data. Systematic errors attributable to estimation and imputation have been resolved.

The accuracy of the WPSR's crude oil imports series remained about the same in 1981, 1982, and through the first 4 months of 1983 (see Figure 5). The new weekly system imputes for nonresponse in the imports system as well as for the other surveys. Imputation for imports is more successful for the weekly system than for the monthly because only the larger companies are in the weekly sample.

Figure 5. Comparison of Weekly and Monthly Imports Data



Note: Diamond = Mean

Bar = Mean ± One Standard Deviation

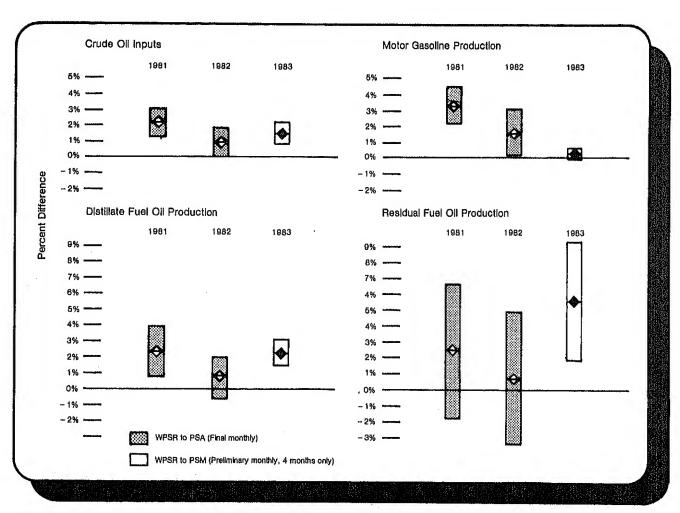
Source: Energy Information Administration

There has been considerable improvement in WPSR accuracy for production of motor gasoline (see Figure 6). Crude oil inputs, and distillate fuel oil and residual fuel oil production still show positive blases directly related to reporting differences of a few companies. As these companies reduce their reporting differences, the WPSR data should become less blased.

The WPSR stocks data comparisons are illustrated in Figure 7. Motor gasoline stocks appear high because of one large error (2.35 percent) attributable to differences in reporting the large drawdown in bulk terminal stocks

In anticipation of the Federal tax increase that became effective on April 1, 1983. The monthly data, effective midnight on March 31, 1983, showed this drop in stocks. The weekly data, effective 7:00 a.m. on Friday April 1, 1983, did not. The drop in inventories became evident in the weekly data for April 8, 1983. For the first 4 months in 1983, the crude oil and distillate fuel oil stocks data are much improved over 1981 and 1982 data. The residual fuel oil stocks data are still systematically low because of misreporting at bulk terminals. EIA is contacting these respondents and working with them to resolve these discrepancies.

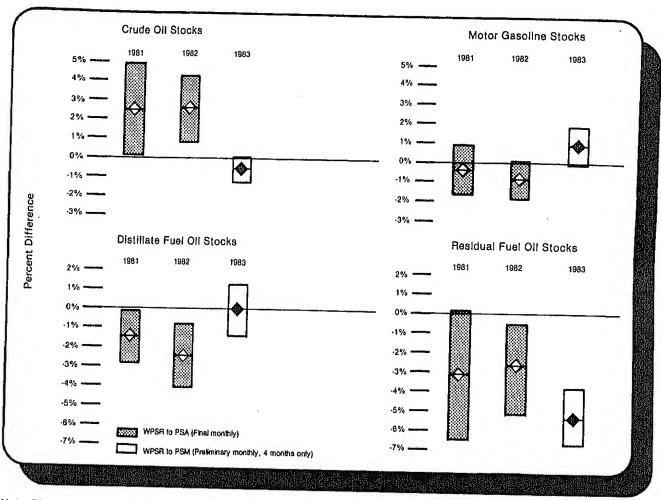
Figure 6. Comparison of Weekly and Monthly Inputs and Production Data



Note: Dlamond = Mean

Bar = Mean \pm One Standard Deviation Source: Energy Information Administration

Figure 7. Comparison of Weekly and Monthly Stocks Data



Note: Dlamond = Mean

Bar = Mean ± One Standard Deviation

Source: Energy Information Administration

Conclusion

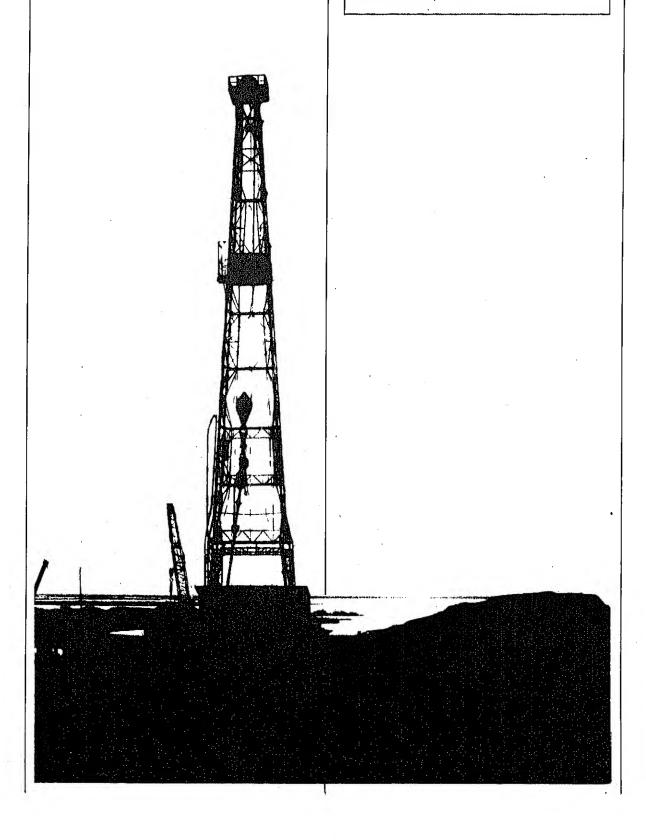
of its publication of monthly petroleum supply the no deterioration in the accuracy of most data achievement is due primarily to the efforts personnel.

f survey respondents,

the biases in weekly petroleum supply data will continue to lessen. Overall improvement in weekly accuracy has been a joint effort involving more timely and consistent reporting by respondents, new statistical imputation procedures, new computer editing and processing systems, and the desire of the weekly processing personnel to publish highly accurate and timely petroleum supply data.

Summary Statistics

1982 Statistics Contained In This Section Are Final. They have been extracted from the Petroleum Supply Annual which was released June 30, 1983.



		Fie	ld Producti	on	Stock W	'ithdrawal ²		Ending Stocks ³
		Total Domestic ⁴	Crude Oli	Natural Gas Plant Production	Crude Oll ⁵	Petroleum Products	Petroleum Products Supplied	Crude Oil ⁵ and Petroleum Products
				Thousand Barr	els per Day			Millions of Barrels
1973 1974 1975 1976 1977	AVERAGE AVERAGE AVERAGE AVERAGE AVERAGE	10,975 10,498 10,045 9,774 9,913 10,328	9,208 8,774 8,375 8,132 8,245 8,707	1,738 1,688 1,633 1,603 1,618 1,567	11 -62 -17 -39 -170 -78	-146 -117 -145 96 -378 172	17,308 16,653 16,322 17,461 18,431 18,847	1,008 6 1,074 1,133 1,112 1,312 1,278
1979 1980		10,179 10,214	8,552 8,597	1,584 1,573	~148 -98	-25 -42	18,513 17,056	1,341 ⁶ 1,392
1981		10,231 10,294 10,272 10,195 10,160 10,287 10,098 10,243 10,281 10,225 10,269 10,220 10,230 10,128 10,312 10,284 10,188 10,244	8,540 8,604 8,613 8,557 8,501 8,629 8,500 8,583 8,604 8,563 8,586 8,585 8,572 8,509 8,702 8,667 8,591 8,683	1,652 1,653 1,624 1,599 1,593 1,594 1,548 1,614 1,612 1,598 1,630 1,590 1,609	50 -278 -632 -595 -391 -135 -360 397 -285 -760 -325 -170 -290 -401 -242 121 -37 29	1,159 250 224 148 -374 406 91 -999 -341 477 -233 745 130 1,298 1,230 1,047 1,583 -66	18,430 16,989 15,907 15,350 16,095 15,682 15,665 15,655 15,822 15,593 16,596 16,124 16,001 15,560 16,046 14,847	1,388 1,389 1,401 1,415 1,438 1,430 1,439 1,457 1,476 1,485 1,501 1,484
	June July August September October November December AVERAGE January February March April May June*	10,212 10,229 10,215 10,279 10,359 10,276 10,252 10,356 10,298 10,259 10,229 10,231	8,646 8,658 8,634 8,701 8,701 8,697 8,598 8,649 8,634 8,660 8,677 8,686 8,682	1,511 1,513 1,524 1,518 1,530 1,609 1,628 1,550 1,668 1,585 1,544 1,502 1,483	40 -147 -440 263 -548 -398 128 -136 -567 -382 56 -438 68	-489 -926 -44 -447 -47 -361 688 283 865 1,128 1,765 431 -759	14,998 14,821 14,839 15,022 14,859 15,009 15,487 15,296 14,765 14,772 15,484 14,779 14,250	1,360 1,393 1,408 1,414 1,432 1,455 6 1,430 1,453 1,432 1,375 1,376 1,397
	Jule* July** AVERAGE	10,262 NA NA	8,676 <i>8,647</i> 8,666	1,514 NA NA	H −163 6 −199	R -242 -1008 3 02	R 15,281 <i>14,781</i> 14,873	R 1,409 <i>1,431</i>

Includes lease condensate.

Stocks are totals as of end of period.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Includes crude oil, natural gas plant production, other hydrocarbons and alcohol.
 Includes stocks located in the Strategic Petroleum Reserve.
 In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using coverage (new basis), end of year stocks would be: 1974-1,121, 1980-1,420 and 1982-1,462. Using the expanded Stock withdrawals during 1975, 1981 and 1983 are calculated using new basis stock levels. Totals may not equal sum of components due to Independent rounding.

NA = Not available, R = Revised data.

See Explanatory Note 9.1.

Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oil¹ and Petroleum Products Overview (continued)

			Imports	1		Exports		
		Total	Crude Oll ²	Petroleum Products	Total	Crude Oll	Petroleum Products	Net ³ Import
				Thousa	nd Barrels p	er Day		
973	AVERAGE	6,256	3,244	3,012	231	2	229	6,028
974	AVERAGE	6,112	3,477	2,635	221	3	218	5,89
975	AVERAGE	6,056	4,105	1,951	209	6	204	5,846
976	AVERAGE	7,313	5,287	2,026	223	8	215	7,09
977	AVERAGE	8,807	6,615	2,193	243	50	193	8,56
978	AVERAGE	8,363	6,356	2,008	362	158	204	
979	AVERAGE	8,456	6,519	1,937	472	235		8,002
980	AVERAGE	6,909	5,263	1,646	544	287	237 258	7,984 6,36
981	January	6,827	4,932	1,895	558	339	219	6,27
	February	6,772	4,873	1,899	569	198	371	6,20
	March	6,028	4,521	1,507	586	210	376	5.44
	April	5,668	4,338	1,330	570	198	372	5,09
	May	5,775	4,287	1,489	595	312	283	5,180
	June	5,435	4,061	1,375	420	123	297	5,01
	July	5,816	4,296	1,521	57 1	257	314	
								5,24
	August	5,767	4,179	1,588	644	204	440	5,12
	September	6,365	4,740	1,624	519	194	325	5,84
	October	5,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December AVERAGE	5,843 5,996	4,137 4,396	1,706 1,5 99	656 6 95	189 228	467 367	5,187 5,401
982	January	5,332	3,693	1,639	829	238	591	4,503
JU2 .	February	4,807	2,990	1,817	804	304	499	4,00
	March	4,484	2,874	1,610	882	321	561	3,60
	April	4,378	2,849	1,529	786	174	611	3,59
		4,811			803	262	542	
	May June		3,309	1,503	703	94	609	4,008
		5,327	3,836	1,491				4,62
	July	5,890	4,248	1,642	741	229	512	5,149
	August	5,244	3,851	1,392	858	304	554	4,386
	September	5,414	3,636	1,778	791	184	606	4,624
	October	5,306	3,670	1,636	932	270	662	4,37
	November	5,744	3,862	1,882	786	262	524	4,95
	December	4,606	3,000	1,605	860	193	667	3,746
	AVERAGE	5,113	3,488	1,625	815	236	579	4,291
983	January	4,372	2,938	1,434	973	117	856 603	3,399
	February March	3,691	2,268		865	262	603	2,82
	March	3,629	2,232	1,398	801	174	627	2,829
	April	4,744	3,154	1,590	809	88	721	3,93
	May	4,898	3,234	1,664	848	280	568	4,049
	June*	R 5,218	R 3,502	R 1,716	774	144	630	4,443
	July**	5,751	4,066	1,685	NA	- NA	NA	NA
	AVERAGE	4,624	3,065	1,560	NA	NA	NA	NA

¹ Includes lease condensate.

² Includes crude oil for storage in the Strategic Petroleum Reserve.

³ Net Imports = Imports minus Exports.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

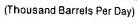
See Explanatory Note 9.1.

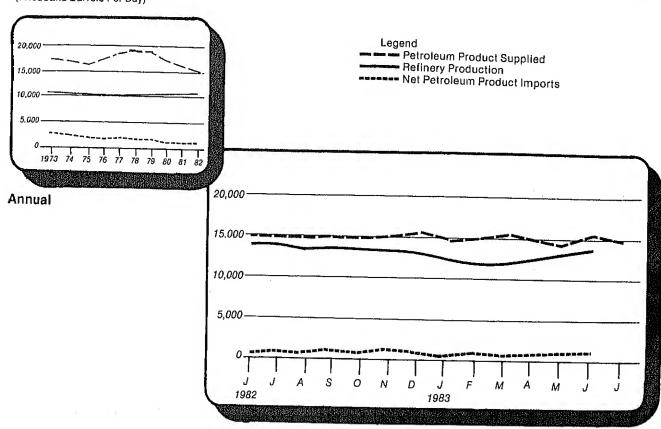
[&]quot;Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

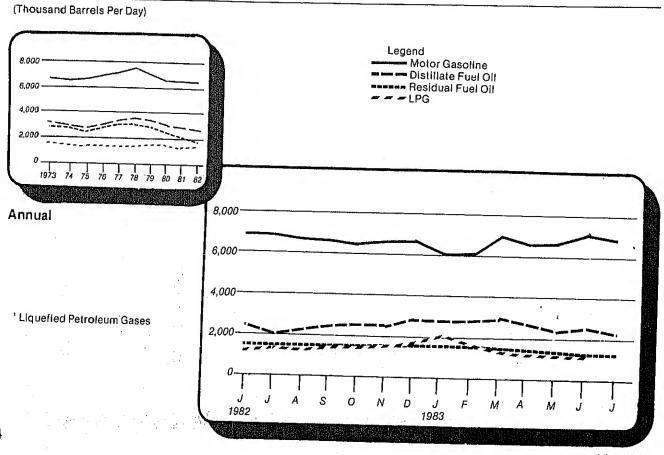






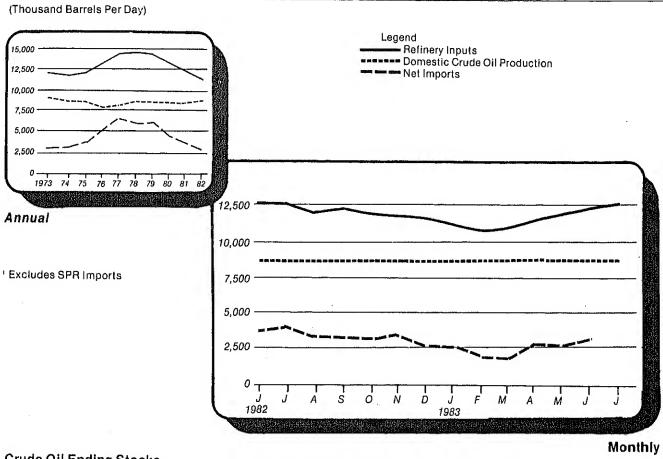
Petroleum Products Supplied





Monthly

Crude Oil Supply and Disposition



Crude Oil Ending Stocks

(Millions of Barrels) 400 Legend 300 Other Primary SPR 200 Average Stock Rangel 100 400 Annual 300 1 Level and width of Average Stock Ranges for crude oll is based on 3 200 years of data, January 1980-December 1982. See Explanatory Note 6. 100

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				Su	pply			
	Fleid Pro	duction		Imports			ock rawal ²	
	Total Domestic	Alaskan	Total	SPR ³	Other	SPR ³	Other	Unac- counted for Crude Oil
				Thousand Ba	arrels per Day			
AVERAGE	9,208	198	3,244		3,244		11	3
							-62	-25
					4,105		-17	17
					5,287		-39	77
				21	6,594	-20		-6
			6,356	162	6,195	-163		-57
		1,401	6,519	67				-11
AVERAGE	8,597	1,617	5,263	44	5,219	-45	-52	34
	8,540	1,606	4.932	106	4 826	_151	201	113
February								
								-41
April								154
								51
•								286
	•							49
								147
	•							16
•								-295
			•					166
					•			279
AVERAGE	8,572							52 83
January	0.500	·						
	•							101
		-						156
		-						2
•		•						231
•								111
		•						133
								-20
. •								189
			•					-210
			•		•			249
			•					-124
								35
AVEHAGE	8,649	1,696	3,488	165	3,323	-174	38	71
	8,634	1,698	2,938	219	2,720	-219	-348	238
	8,660	1,725	2,268	197				423
	8,677	1,726	2,232	201	2,031	-184		134
April	8,686	1,710	3,154	205				191
May	8,682	1,710	3,234	289				148
June*	8,676	1,710	R 3,502	R 190	R 3,312	~188	R 25	480
July**	8,647	1,705	4,066	290	3,776	-278	284	NA
AVERAGE	8,666	1,712	3,065	228	2,837	-223	24	NA
	AVERAGE January February March April May June July August September October November December AVERAGE January February March April May June July August September October AVERAGE January February March April May June July August September October November December AVERAGE January February March April May March April May	AVERAGE 9,208 AVERAGE 8,774 AVERAGE 8,375 AVERAGE 8,132 AVERAGE 8,552 AVERAGE 8,552 AVERAGE 8,557 January 8,540 February 8,604 March 8,613 April 8,557 May 8,501 June 8,629 July 8,500 August 8,583 September 8,604 October 8,563 November 8,586 December 8,585 AVERAGE 8,572 January 8,509 February 8,702 March 8,667 APRII 8,591 May 8,683 June 8,646 July 8,658 AUERAGE 8,677 April 8,697 December 8,701 October 8,701 November 8,684 September 8,701 October 8,701 November 8,684 September 8,701 October 8,701 November 8,697 December 8,598 AVERAGE 8,649 January 8,634 February 8,660 May 8,686 May 8,686 May 8,686	AVERAGE 9,208 198 AVERAGE 8,774 193 AVERAGE 8,375 191 AVERAGE 8,132 173 AVERAGE 8,132 173 AVERAGE 8,245 464 AVERAGE 8,552 1,401 AVERAGE 8,552 1,401 AVERAGE 8,557 1,617 January 8,540 1,606 February 8,604 1,619 March 8,613 1,618 April 8,557 1,608 May 8,501 1,580 June 8,629 1,632 July 8,500 1,605 August 8,583 1,602 September 8,604 1,607 October 8,583 1,596 November 8,586 1,614 December 8,586 1,614 December 8,586 1,623 AVERAGE 8,572 1,609 January 8,509 1,705 February 8,702 1,707 March 8,667 1,696 April 8,591 1,691 May 8,683 1,707 June 8,646 1,667 April 8,591 1,691 May 8,683 1,707 June 8,646 1,666 April 8,591 1,691 May 8,683 1,707 June 8,646 1,667 April 8,591 1,691 May 8,683 1,707 June 8,646 1,667 April 8,591 1,691 May 8,683 1,707 June 8,646 1,696 April 8,591 1,691 May 8,683 1,707 June 8,646 1,696 April 8,598 1,692 AVERAGE 8,649 1,696 January 8,634 1,698 February 8,660 1,725 March 8,677 1,726 April 8,686 1,710 May 8,682 1,710	AVERAGE 9,208 198 3,244 AVERAGE 8,774 193 3,477 AVERAGE 8,375 191 4,105 AVERAGE 8,132 173 5,287 AVERAGE 8,245 464 8,615 AVERAGE 8,520 1,401 6,519 AVERAGE 8,552 1,401 6,519 AVERAGE 8,557 1,617 5,263 January 8,540 1,606 4,932 February 8,604 1,619 4,873 March 8,613 1,618 4,521 April 8,557 1,608 4,338 May 8,501 1,580 4,287 June 8,629 1,632 4,061 July 8,500 1,605 4,296 August 8,583 1,602 4,179 September 8,604 1,607 4,740 October 8,563 1,596 4,380 November 8,586 1,614 4,046 December 8,585 1,623 4,137 AVERAGE 8,572 1,609 4,396 January 8,509 1,705 3,693 February 8,702 1,707 2,990 March 8,667 1,696 2,874 April 8,591 1,691 2,849 May 8,683 1,707 3,309 June 8,646 1,665 3,836 July 8,658 1,710 4,248 August 8,634 1,697 3,851 September 8,701 1,705 3,636 October 8,701 1,705 3,636 September 8,697 1,676 3,886 September 8,701 1,705 3,636 October 8,701 1,705 3,636 October 8,701 1,705 3,636 September 8,697 1,676 3,886 September 8,697 1,676 3,886 December 8,598 1,692 3,000 AVERAGE 8,649 1,696 3,488 January 8,684 1,698 2,938 February 8,660 1,725 2,268 March 8,677 1,726 2,232 April 8,686 1,710 3,154 May 8,682 1,710 3,234	Total Domestic Alaskan Total SPR3 AVERAGE 9,208 198 3,244 AVERAGE 8,774 193 3,477 AVERAGE 8,375 191 4,105 AVERAGE 8,132 173 5,287 AVERAGE 8,132 173 5,287 AVERAGE 8,552 1,401 6,519 67 AVERAGE 8,557 1,617 5,263 44 January 8,540 1,606 4,932 106 February 8,604 1,619 4,873 80 March 8,613 1,618 4,521 140 April 8,557 1,608 4,338 272 May 8,501 1,580 4,287 386 June 8,629 1,632 4,061 318 July 8,500 1,605 4,296 175 August 8,583 1,602 4,179 257 September 8,604 1,607 4,740 435 October 8,583 1,596 4,380 453 November 8,586 1,614 4,046 271 December 8,585 1,623 4,137 165 AVERAGE 8,572 1,609 4,396 256 January 8,509 1,705 3,693 170 February 8,702 1,707 2,990 159 March 8,687 1,696 2,874 185 AVERAGE 8,572 1,609 4,396 256 January 8,509 1,705 3,693 170 February 8,702 1,707 2,990 159 March 8,667 1,696 2,874 185 AVERAGE 8,572 1,609 4,396 256 January 8,693 1,707 3,309 204 June 8,646 1,665 3,836 105 July 8,658 1,710 4,248 97 August 8,693 1,707 3,309 204 June 8,646 1,665 3,836 105 July 8,658 1,710 4,248 97 August 8,693 1,707 3,309 204 June 8,646 1,665 3,836 105 July 8,658 1,710 3,254 288 197 March 8,697 1,676 3,696 139 October 8,701 1,706 3,670 216 November 8,598 1,692 3,000 124 AVERAGE 8,649 1,696 3,488 165 January 8,694 1,696 3,488 165 January 8,694 1,696 3,488 165 January 8,698 1,692 3,000 124 AVERAGE 8,649 1,696 3,488 165 January 8,698 1,710 3,254 288 January 8,684 1,696 3,488 165 January 8,698 1,710 3,254 288 January 8,698 1,710 3,154 205 AVERAGE 8,649 1,696 3,488 165 January 8,698 1,696 3,488 165 January 8,698 1,710 3,254 288 January 8,680 1,725 2,268 197 March 8,686 1,710 3,154 205 AVERAGE 8,649 1,696 3,488 165 January 8,684 1,696 3,488 165 January 8,686 1,710 3,154 205 AVERAGE 8,682 1,710 3,234 288 January 8,686 1,710 3,234 288 January 8,686 1,710 3,234 288 January 8,	Total Domestic Alaskan Total SPR3 Other Thousand Barrels per Day AVERAGE 9,208 198 3,244 3,244 AVERAGE 8,774 193 3,477 3,477 AVERAGE 8,132 173 5,287 AVERAGE 8,132 173 5,287 AVERAGE 8,142 173 5,287 AVERAGE 8,245 464 8,615 21 6,594 AVERAGE 8,525 1,401 6,519 67 6,452 AVERAGE 8,552 1,401 6,519 67 6,452 AVERAGE 8,597 1,817 5,263 44 5,219 January 8,540 1,606 4,932 106 4,826 February 8,604 1,619 4,873 80 4,793 March 8,613 1,618 4,521 140 4,382 April 8,557 1,608 4,338 272 4,068 May 8,501 1,580 4,287 386 3,901 June 8,629 1,632 4,061 318 3,743 July 8,500 1,605 4,287 386 3,901 June 8,629 1,632 4,061 318 3,743 July 8,500 1,605 4,287 386 3,901 August 8,583 1,602 4,179 257 3,922 September 8,604 1,607 4,740 435 4,305 October 8,583 1,596 4,380 453 3,927 November 9,586 1,614 4,046 271 3,774 December 8,585 1,623 4,137 165 3,971 AVERAGE 8,572 1,609 4,396 256 4,141 January 8,609 1,705 3,693 170 3,523 February 8,702 1,707 2,990 159 2,830 March 8,687 1,696 2,874 185 2,689 April 8,583 1,707 3,309 204 3,105 June 8,684 1,697 3,851 208 3,643 September 8,701 1,705 3,693 170 3,523 February 8,680 1,705 3,693 170 3,523 February 8,681 1,707 3,309 204 3,105 June 8,684 1,696 2,874 185 2,689 April 8,685 1,710 4,248 97 4,150 August 8,683 1,707 3,309 204 3,105 June 8,684 1,697 3,851 208 3,643 September 8,701 1,705 3,636 139 3,497 October 8,701 1,705 3,636 139 3,497 October 8,701 1,705 3,636 139 3,497 October 8,701 1,706 3,670 216 3,454 November 8,688 1,710 4,248 97 4,150 August 8,689 1,707 3,898 219 2,720 February 8,680 1,725 2,288 219 2,720 February 8,680 1,725 2,288 197 2,071 March 8,677 1,726 2,232 201 2,031 April 8,686 1,710 3,154 205 2,949 May 8,682 1,710 3,234 289 2,945	Total Domestic Alaskan Total SPR3 Other SPR3 AVERAGE 9,208 198 3,244 3,447 AVERAGE 8,774 193 3,477 3,477 AVERAGE 8,132 173 5,287 5,287 AVERAGE 8,132 173 5,287 5,287 AVERAGE 8,245 464 8,615 21 6,594 -20 AVERAGE 8,592 1,401 6,519 67 6,452 -67 AVERAGE 8,592 1,401 6,519 67 6,452 -67 AVERAGE 8,597 1,617 5,263 44 5,219 -45 AVERAGE 8,597 1,617 5,263 44 5,219 -45 AVERAGE 8,597 1,617 5,263 44 5,219 -45 AVERAGE 8,597 1,618 4,392 106 4,826 -151 February 8,604 1,619 4,873 80 4,793 -127 March 8,613 1,618 4,521 140 4,382 -155 April 8,557 1,608 4,338 272 4,066 -444 May 8,501 1,580 4,287 386 3,901 -513 June 3,629 1,632 4,061 318 3,743 -434 July 8,500 1,605 4,286 175 4,121 -324 August 8,583 1,602 4,179 257 3,922 -372 September 8,604 1,607 4,740 435 4,305 -486 October 8,583 1,596 4,380 453 3,927 -501 November 8,586 1,614 4,046 271 3,774 -259 November 8,586 1,614 4,046 271 3,774 -259 November 8,586 1,614 4,046 271 3,774 -259 November 8,585 1,623 4,137 165 3,971 -252 AVERAGE 8,572 1,609 4,396 256 4,141 -336 June 3,646 1,667 4,740 435 4,305 -486 October 8,583 1,602 4,179 257 3,922 -372 AVERAGE 8,572 1,609 4,396 256 4,141 -336 January 8,509 1,705 3,693 170 3,523 -159 February 8,702 1,707 2,990 159 2,830 -213 March 8,681 1,691 2,849 190 2,659 -235 APRIL 8,591 1,691 2,849 190 2,659 -233 April 8,591 1,691 2,849 190 2,659 -233 April 8,591 1,691 2,849 190 2,659 -233 April 8,591 1,697 3,385 1,092 3,497 -143 October 8,701 1,705 3,636 139 3,497 -143 October 8,646 1,665 3,836 199 2,001 124 2,877 -125 AVERAGE 8,649 1,6	Total Domestic Alaskan Total SPR3 Other SPR3 Other Thousand Barrels per Day AVERAGE 9,208 198 3,244 3,244 111 AVERAGE 8,774 193 3,477 3,477 -62 AVERAGE 6,132 173 5,287 5,287 -79 AVERAGE 8,245 484 6,615 21 6,594 -20 -150 AVERAGE 8,707 1,229 6,356 162 6,195 -183 84 AVERAGE 8,557 1,401 6,519 67 6,452 -67 -81 AVERAGE 8,557 1,817 5,263 44 5,219 -45 -52 January 8,604 1,619 4,873 80 4,793 -127 -150 March 8,613 1,618 4,821 140 4,382 -155 -477 April 8,557 1,608 4,338 272 4,066 -444 -151 May 8,501 1,580 4,287 386 3,901 -513 212 Juna 8,629 1,632 4,061 318 3,743 434 299 July 9,500 1,605 4,296 175 4,121 -324 -36 August 8,583 1,602 4,179 257 3,922 -372 769 August 8,583 1,602 4,179 257 3,922 -372 769 December 8,604 1,607 4,740 435 4,305 -486 201 October 8,583 1,586 4,380 453 3,927 -501 -259 November 9,588 1,614 4,046 271 3,774 -259 -68 December 8,585 1,603 4,396 256 4,141 -336 46 January 8,501 1,591 2,891 159 2,893 -215 -229 AVERAGE 8,572 1,609 4,396 256 4,141 -336 46 January 8,501 1,591 2,893 170 3,523 -159 -249 March 8,687 1,693 4,396 256 4,141 -336 46 January 8,591 1,691 2,891 170 3,592 -159 -249 March 8,687 1,693 4,396 256 4,141 -336 46 January 8,591 1,691 2,891 170 3,592 -235 357 Ayril 8,591 1,691 2,891 190 2,689 -235 357 Ayril 8,591 1,691 2,891 190 2,689 -235 357 Ayril 8,591 1,691 2,891 190 3,669 -232 March 8,667 1,707 3,309 204 3,105 -176 205 March 8,667 1,707 3,891 190 3,669 -233 196 May 8,683 1,707 3,309 204 3,105 -176 205 January 8,694 1,697 3,851 208 3,487 -143 408 October 8,697 1,705 3,693 190 3,643 -208 -232 AVERAGE 8,691 1,696 3,486 165 3,323 -174 38 January 8,694 1,697 3,861 209 3,486 165 3,323 -174 38 January 8,694 1,698 2,938 219 2,720 -219 -348 March 8,697 1,676 3,862 100 124 2,877 -125 252 AVERAGE 8,691 1,705 3,693 199 2,720 -219 -348 January 8,694 1,698 2,938 219 2,720 -219 -348 January 8,694 1,698 2,938 219 2,720 -219 -348 March 8,697 1,767 3,309 204 2,917 -917 -9241 May 8,682 1,710 3,234 289 2,945 -923 362

Crude Oil Supply and Disposition (continued)

		Supply		Dispo	sition		E	nding Stock	(S 2
		Crude Used Directly ³	Crude Losses	Refinery Inputs	Exports	Product Supplied ³	Total Crude Oli	SPR ⁴	Other Primary
			Thous	and Barrels p	er Day		Mil	lions of Bar	rels
1973	AVERAGE	-19	13	12,431	2	NA	242		242
1974	AVERAGE	-15	13	12,133	3	NA	5 265		5 265
1975	AVERAGE	-17	13	12,442	6	NA	271		271
1976	AVERAGE	-18	15	13,416	8	NA	285		285
1977	AVERAGE	-14	16	14,602	.50	NA	348	7	340
1978	AVERAGE	-14	16	14,739	158	NA	376	67	309
1979	AVERAGE	-13	16	14,648	235	NA	430	91	339
1980	AVERAGE	-13	15	13,481	287	NA	5 466	108	5 358
981	January	-43	6	13,247	339	NA	486	112	374
	February	-55	3	12,902	198	NA	494	116	378
	March	-57	6	12,383	210	NA	514	121	393
	April	-59	3	12,091	198	NA	532	134	397
	May	~59	3	12,309	312	NA	544	150	394
	June	-58	7	12,415	123	NA	548	163	385
	July	-58	7	12,261	257	NA	559	173	386
	August	-58	5	12,908	204	NA NA	547	185	362
	September	-61	. 4	12,505	194	NA NA			
	October	-63	. 3				555	199	356
	November	-64		12,057	226	NA	579	215	364
	December		4	12,240	278	NA	589	223	366
	AVERAGE	-63 -58	4 5	12,349 1 2,470	189 228	NA NA	594	230	363
002	January	-63	3				222		
	February	-64	2	11,599	238	NA	606	235	371
	March			11,236	304	NA	613	241	372
		-63	5	11,276	321	NA	609	249	361
	April	-65	3	11,392	174	NA	610	256	355
	May	-62	3	11,806	262	NA	609	261	348
	June	-60	7	12,494	94	NA	608	264	344
	July	-60	3	12,446	229	NA	613	267	346
	August	-57	2	11,871	304	NA	626	274	353
	September	-56	4	12,146	184	NA	619	278	341
	October	-51	2	11,749	270	NA	636	285	351
	November	-51	. 1	11,724	262	NA	648	290	358
	December	-53	. 1	11,514	193	NA	5 644	294	5 350
	AVERAGE	-59	3	11,774	236	NA			
	January	NA	2	11,070	117	54	661	301	361
	February	NA	3	10,635	262	69	672	306	366
	March	NA	2	10,854	174	70	670	312	359
	April	NA	2	11,436	88	68	684	318	366
	May	NA	1	11,789	280	63	681	327	355
	June*	NA	1	R 12,287	144	64	R 686	332	R 354
,	July**	NA	NA	12,534	NA	NA	688	341	347
	AVERAGE	NA	NA	11,524	NA	NA			0.71

i Includes lease condensate.

Slocks are totals as of end of period.
 Beginning in January 1983, crude oil used directly as fuel is presented as product supplied for crude oil. Prior to January 1983 crude oil used directly was included with crude oil losses in this table and with product supplied for distillate and residual fuel oils.

⁴ Strategic Petroleum Reserve.

⁵ In January 1975, 1981, and 1983, significant numbers of new respondents were bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis) end of year stocks would be: 1974-265, 1980-483 (Total) and 375 (Other primary), and 1982-644 (Total) and 350 (Other Primary).

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

^{*} See Explanatory Note 9.2.
** Italics denote preliminary data. See Explanatory Note 8.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

			Supply			Disp	osition		Ending	Stocks ¹
						Р	roduct Supplic	ed		
		Total Produc- tion	Imports ²	Stock With- drawal ^{2 3}	Exports	Total	Unleaded ⁵	Unleaded	Total Motor Gasoline ⁴	Finished Motor Gasoline
			_	Thousand Ba	rrels per Day			Percent of Total	Millions o	of Barrels
1973	AVERAGE	6,535	134	9	4	6,674	NA	NA	209	
1974	AVERAGE	6,360	204	-24	2	6,537	NA	NA	6 218	
1975	AVERAGE	6,520	184	-28	2	6,675	NA	NA	235	
976	AVERAGE	6,841	131	10	3	6,978	NA	NA	231	
977	AVERAGE	7,033	217	-72	2	7,177	1,976	27.5	258	
978	AVERAGE	7,169	190	54	1	7,412	2,521	34.0	238	
979	AVERAGE	6,852	181	2	(s)	7,034			237	
980	AVERAGE	6,506	140	-66	1	6,579	2,798 3,067	39.8 46.6	6 261	
004	lan									
981	January	6,715	138	-421	(3)	6,431	3,141	48.8	276	227
	February	6,308	111	-118	1	6,301	3,095	49.1	284	230
	March	6,213	171	-81	(8) (5)	6,303	3,097	49.1	285	232
	April	6,114	186	303	(5)	6,602	3,284	49.7	272	223
	May	6,122	150	344	' 1	6,615	3,115	47.1	259	213
	June	6,220	186	622	1	7,028	3,419	48.6	242	194
	July	6,405	151	268	(9)	6,823	3,424	50.2	228	186
	August	6,611	124	-95	`′3	6,637	3,344	50.4	233	189
	September	6,564	169	-70	2	6,662	3,338	50.1	237	191
	October	6,426	147	7	3	6,578	3,257		236	190
	November	6,564	148	-338	1	6,373		49.5		
	December	6,586	197	-91			3,198	50.2	248	201
	AVERAGE	6,405	157	28	11 2	6,681 6,588	3,444 3,264	51.5 4 9. 5	253	203
982	January	6,167	128	046	40	5.004			201	
	February	5,899	133	-316	18	5,961	3,067	51.5	261	213
	March			172	.8	6,196	3,210	51.8	257	208
	April	5,994	183	334	44	6,466	3,358	51.9	247	198
		6,095	185	650	33	6,897	3,495	50.7	221	179
	May	6,319	182	177	23	6,655	3,415	51.3	214	173
	June	6,754	230	-134	14	6,835	3,565	52.2	219	177
	July	6,768	225	-178	24	6,790	3,577	52.7	226	183
	August	6,419	291	-81	16	6,614	3,526	53.3	227	185
	September	6,527	223	-198	22	6,531	3,404	52.1	234	191
	October	6,262	185	-42	15	6,391	3,351	52.4	234	192
	November	6,273	211	101	11	6,574	3,451	52.5	230	189
	December	6,542	178	-165	7	6,549	3,485	53.2	6 235	6 194
	AVERAGE	6,338	197	25	20	6,539	3,409	52.1	200	104
983	January	6,020	148	-186	/e\	5.004	0.050			
	February	5,848	142		(s)	5,981	3,352	56.0	251	208
	March	5,897		32 765	(s)	6,022	3,257	54.1	251	207
	April		205	765	23	6,843	3,620	52.9	224	184
		6,202	273	27	1	6,501	3,505	53.9	221	183
	May lune*	6,386	284	-128	1	6,540	3,547	54.2	225	187
	June*	R 6,646	R 265	R 118	. 22	R 7,008	3,796	54.2	R 223	R 183
	July**	6,747	241	-202	NA	6,785	NA	NA	228	190
	AVERAGE	6,253	223	61	NA	6,531	NA	NA	220	120

¹ Stocks are totals as of end of period.

Beginning in 1981, excludes blending components.

4 Includes motor gasoline blending components.

5 Includes gasohol.

³ A negative number indicates an increase in stocks and a positive number indicates a decrease.

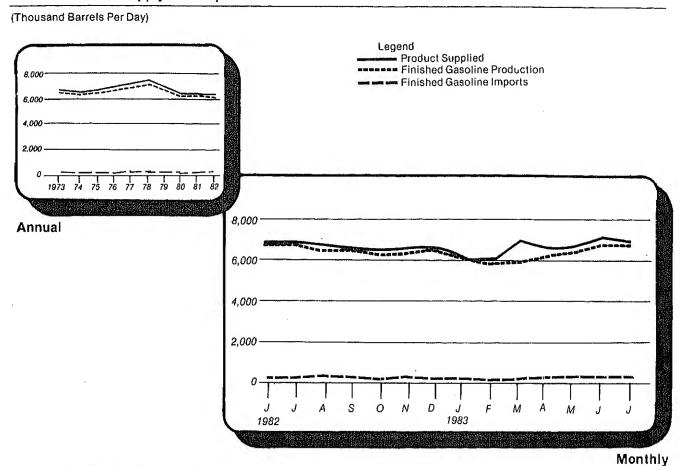
in January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded country of year stocks would be: 1974-225, 1980-263, 1982-244 (Total) and 203 (Finished). during 1975, 1981, and 1983 are calculated using new basis stock levels.

Less than 500 barrels per day. NA = Not available. R = Revised data. expanded coverage (new basis), Stock withdrawals

See Explanatory Note 9.3.

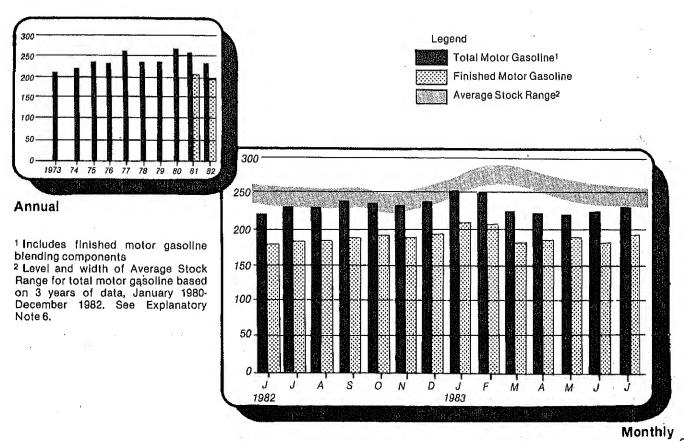
Italics denote preliminary data. See Explanatory Note 8. Note: Beginning in January 1981, survey forms were modified .

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.



Motor Gasoline Ending Stocks

(Millions of Barrels)



			S	apply		Disp	osition	Ending Stocks ¹
		Total Production	Imports	Stock Withdrawai ²	Crude Used Directly ³	Exports	Product Supplied ³	
		'		Thousand Bar	rrels per Day			Millions of Barrels
1973	AVERAGE	2,822	392	-115	2	9	3,092	196
1974	AVERAGE	2,669	289	-9	2	2	2,948	4 200
1975	AVERAGE	2,654	155	40	2	ī	2,851	209
1976	AVERAGE	2,924	146	62	ī	i	3,133	186
1977	AVERAGE	3,278	250	-176	i	1,	3,352	250
1978	AVERAGE	3,167	173	93	i	3	3,432	216
1979	AVERAGE	3,153	193	-34	i	3	3,311	229
1980	AVERAGE	2,662	142	64	i	š	2,866	4 205
		-,		• •	•	•	2,000	200
1981	January	2,989	273	836	11	(s)	4,109	179
	February	2,809	325	246	11	`′17	3,373	173
	March	2,484	147	264	9	(s)	2,904	164
	April	2,418	116	-9	10	`′3	2,532	165
	May	2,454	179	-232	10		2,411	172
	June	2,501	225	-270	9	(8) (5)	2,464	180
	July	2,395	179	-204	10	`´2	2,378	186
	August	2,656	174	-450	8	(s)	2,388	200
	September	2,610	129	-235	10	`´ 1	2,513	207
	October	2,485	119	197	9	5	2,803	201
	November	2,716	124	36	11	6	2,880	200
	December	2,856	95	277	11	26	3,212	192
	AVERAGE	2,613	173	38	10	. 5	2,829	
1982	January	2,591	97	976	40	20		
1302	February	2,427	132	876 605	10	90	3,484	164
	March	2,288	48	682	11 10	90	3,085	147
	April	2,358	59	612		84	2,945	126
	May	2,618	74	-183	13 10	64 75	2,978	108
	June	2,729	102	-335	10	75 55	2,444	114
	July	2,734	125	-789	11	24	2,452	124
	August	2,507	80	-339	10	40	2,058	148
	September	2,657	61	-85	12	139	2,218 2,507	159
	October	2,838	91	-289	8	66	2,507 2,581	161
	November	2,860	145	-514	8	24	2,475	170
	December	2,655	109	225	10	143	2,475	186 4 179
	AVERAGE	2,606	93	35	10	. 74	2,671	179
1923	January	2.014	20	***			* * *	***
1303	February	2,314 2,136	58	561	NA	173	2,760	168
	March	2,136 1,991	58	742	NA	105	2,832	147
	April	2,169	42	926	NA	59	2,900	119
	May	2,169	73	518	NA NA	47	2,713	103
	June*	2,444 R 2,545	141 R175	-193 D 454	NA	50	2,341	109
	July**	2,641	272	R -154	NA	40	R 2,526	R114
	AVERAGE	2,322	118	-587	NA	NA	2,277	130
	* * 4 mm 12.5 Mage	E,UEE	110	253	NA	NA	2,618	

Stocks are totals as of end of period.

A negative number indicates an increase in stocks and a positive number indicates a decrease. Beginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explanatory Note 4.

⁴ In January 1075, 1981, and 1983, significant numbers of new respondents were added to

and pipeline surveys as a result of extensive investigation during the previous years. The major reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year 974-224, 1980-205, and 1982-188. Stock withdrawals during 1975, 1981, and 1983 are calculated vels.

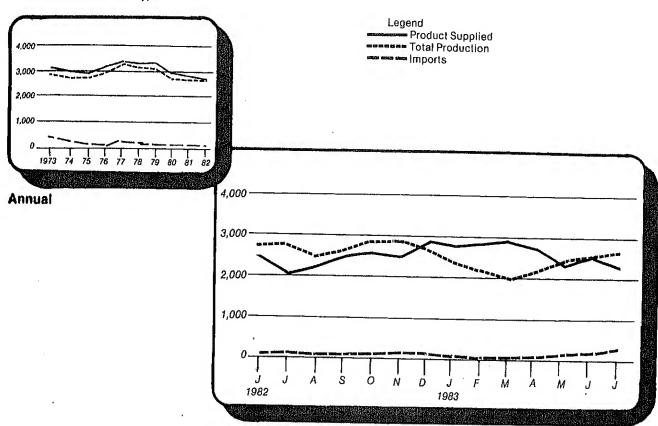
her day. NA = Not available. R = Revised data. components due to independent rounding.

a. See Explanatory Note 8.

Geographic Coverage: The 50 United States and the District of Columbia.

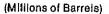
Sources: See "Sources" at the end of this section.

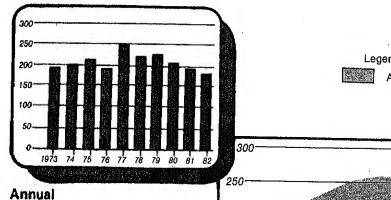




Distillate Fuel Oil Ending Stocks

Monthly

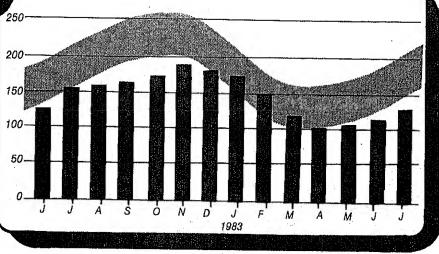




Legend

Average Stock Range 1

Level and width of Average Stock Range for distillate fuel oil is based on 3 years of data, January 1980-December 1982. See Explanatory Note 6.



Monthly

			Su	pply		Dispo	osition	Ending Stocks ¹
		Total Produc- tion	Imports	Stock Withdrawal ²	Crude Used Directly ³	Exports	Product Supplied ³	
				Thousand Bar	rels per Day			Millions of Barrels
		<u> </u>			4-	23	2,822	53
1973	AVERAGE	971	1,853	5	17		2,639	4 60
1974	AVERAGE	1,070	1,587	-17	13	14		74
1975	AVERAGE	1,235	1,223	2	15	15	2,462	
1976	AVERAGE	1,377	1,413	5	17	12	2,801	72
1977	AVERAGE	1,754	1,359	-48	13	6	3,071	90
1978	AVERAGE	1,667	1,355	-1	13	13	3,023	90
1979	AVERAGE	1,687	1,151	-15	12	9	2,826	96
1980	AVERAGE	1,580	939	10	12	33	2,508	4 92
1981	January	1,612	1,015	302	32	65	2,896	82
	February	1,565	954	150	44	125	2,588	78
	March	1,424	699	100	48	145	2,126	75
	April	1,320	584	66	49	151	1,868	73
	May	1,223	741	-170	49	25	1,817	78
	June	1,232	540	291	49	76	2,037	69
	July	1,174	830	2	48	82	1,971	69
	August	1,231	819	-179	50	69	1,852	75
			841	-176	51	126	1,882	80
	September	1,292	786	-176	54	202	1.884	80
	October	1,238		-49	53	202		81
	November	1,227	880	, ,			1,909	
	December	1,329	916	110	52	157	2,250	78
	AVERAGE	1,321	800	37	48	118	2,088	
1982	January	1,235	831	301	53	235	2,185	69
	February	1,186	956	363	53	213	2,344	58
	March	1,123	912	12	53	197	1,903	58
	April	1,166	788	150	52	234	1,923	54
	May	1,128	742	-172	52	191	1,560	59
	June	1,074	652	-57	50	217	1,501	61
	July	1,028	657	56	49	239	1,550	59
	August	965	551	203	47	. 235	1,531	53
	September	1.008	872	-306	44	148	1,470	62
	October	955	783	-57	43	234	1,490	64
	November	989	837	-94	43	182	1,591	66
	December	989	747	6	43	186	1,598	4 66
	AVERAGE	1,070	776	32	48	209	1,716	00
1983	January	935	691	243	NA	294	1,574	61
.505	February	857	632	270	NA NA	191	1,568	53
	March	833	686	220	NA NA	169	1,569	46
							•	
	April	942	743	-10	NA	310	1,364	47
	May	930	709	-139	NA	190	1,310	51
	June*	R 832	R 676	R 28	NA	219	R 1,317	R 50
	July**	838	<i>651</i>	6	NA	NA	1,251	48
	AVERAGE	881	684	86	NA -	NA	1,421	

Stocks are totals as of end of period.

² A negative number indicates an increase in stocks and a positive number indicates a decrease.

Beginning in January 1983, product supplied for residual fuel oil does not include crude oil used directly. See Explanatory Note 4.

In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-75, 1980-91, and 1982-68. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised data.

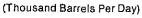
See Explanatory Note 9.4.

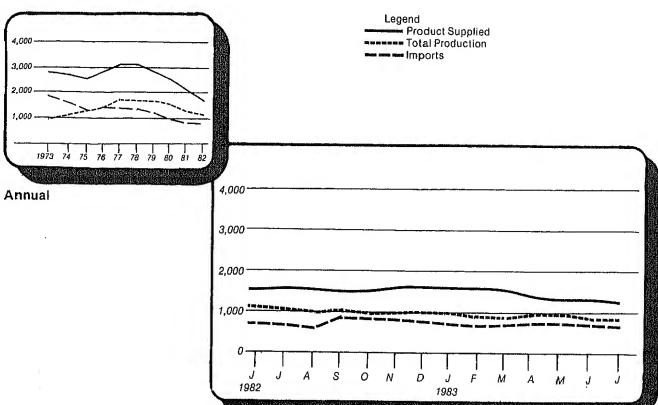
Italics denote preliminary data. See Explanatory Note 8.

Note: Beginning in January 1981, survey forms were modified.

Geographic Coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

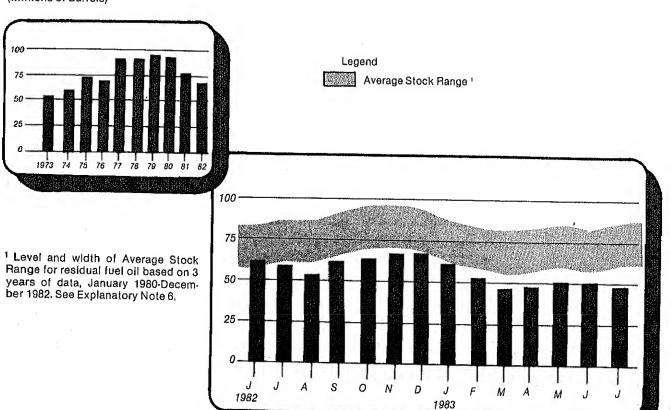






Residual Fuel Oil Ending Stocks

(Millions of Barrels)



Monthly

Monthly

Liquefied Petroleum Gases Supply and Disposition

			Supply			Disposition			
		Total Production	Imports	Stock Withdrawal ²	Refinery Inputs	Exports	Product Supplied		
				Thousand Bar	rrels per Day		<u> </u>	Millions o Barrels	
1973	AVERAGE	1,600	132	-35	220	27	1.449	99	
			•					3 113	
1974	AVERAGE	1,565	123	-38	220	25	1,406		
1975	AVERAGE	1,527	112	-35	246	26	1,333	125	
1976	AVERAGE	1,535	130	24	260	25	1,404	116	
1977	AVERAGE	1,566	161	-55	233	18	1,422	136	
1978	AVERAGE	1,537	123	12	239	20	1,413	132	
1979	AVERAGE	1,556	217	70	236	15	1,592	111	
1980		1,535	216	-27	233	21	1,469	3 120	
,,,,,	717-17-10-1	1,000	2,0		200	~ .	1,400		
1981	January	1,617	306	363	352	21	1,913	117	
	February	1,593	327	173	303	21	1,769	112	
	March	1,551	260	-4	257	20	1,530	112	
	April	1,586	214	-236	231	26	1,308	119	
	May	1,587	189	-258	220	19	1,279	127	
	June	1,567	206	-208	237	24	1,304	133	
	July	1,507	213	-258	215	17	1,229	141	
	August	1,592	195	-242	235	149	1,160	149	
	September	1,622	199	-75	287	21	1,438	151	
	October	1,593	287	72	320	76	1,556	149	
	November	1,571	280	86	383	58	1,495	146	
	December	1,468	255	379	428	50	1,624	135	
	AVERAGE	1,571	244	-18	289	42	1,466		
1982	January	1,565	314	443	391	67	1,863	121	
	February	1,466	291	243	327	51	1,621	114	
	March	1,544	223	211	289	74	1,615	108	
	April		188	98		77			
		1,506			257		1,458	105	
	May	1,565	186	-71	234	43	1,403	107	
	June	1,515	192	-86	262	106	1,254	109	
	July	1,476	227	-13	253	37	1,399	110	
	August	1,511	125	-45	254	61	1,276	111	
	September	1,538	247	37	274	85	1,463	110	
	October	1,517	194	97	306	81	1,421	107	
	November	1,542	267	175	363	37	1,583	102	
	December	1,580	258	256	395	56	1,642	3 94	
	AVERAGE	1,528	226	111	300	65	1,499	- 54	
1000	lanuar:	4 000	212						
1983	January	1,662	240	618	313	118	2,088	84	
	February	1,560	305	84	237	76	1,636	81	
	March	1,517	166	-51	189	127	1,316	83	
	April	1,531	124	-107	198	116	1,232	86	
	May	1,545	167	-326	207	84	1,094	96	
	June*	1,593	172	-333	205	59	1,169	106	
	AVERAGE	1,568	194	-19	225	97	1,421	100	

¹ Stocks are totals as of end of period.

See Explanatory Note 9.5.

Stocks are totals as of end of period.

A negative number indicates a decrease.

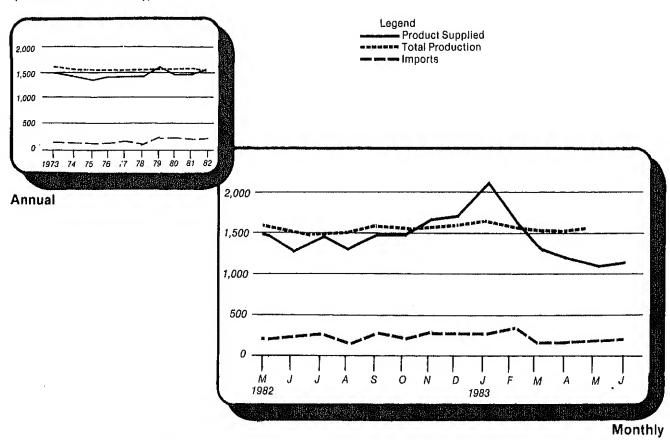
In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-113, 1980-128, and 1982-103. Stock withdrawals during 1975,

^{1981,} and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to Independent rounding.

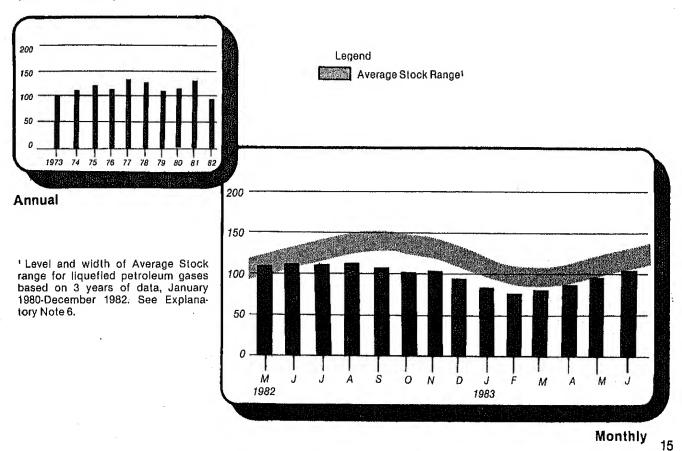
Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.





Liquefied Petroleum Gases Ending Stocks

(Millions of Barrels)



			Supply			Disposition		Ending Stocks ²
		Total Produc- tion	Imports	Stock Withdrawai ³	Refinery Inputs	Exports	Products Supplied	
			, , , , , , , , , , , , , , , , , , ,	Thousand Bar	rrels per Day			Millions of Barrels
1973	AVERAGE	3,693	502	-9	750	166	3,270	208
1974	AVERAGE	3,558	432	-28	665	174	3,123	4 218
1975	AVERAGE	3,424	277	-2	537	160	3,002	219
1976	AVERAGE	3,643	206	-5	524	175	3,145	220
1977	AVERAGE	3,912	205	-27	514	165	3,410	230
1978	AVERAGE	4,046	166	14	492	167	3,568	225
1979	AVERAGE	4,153	195	-37	352	209	3,749	238
1980	AVERAGE	3,956	210	-23	311	198	3,634	4 247
1200	AAEUAGE	3,850	210	-20	311	100	0,004	. 241
1981	January	3,821	162	80	851	132	3,081	296
	February	3,723	182	-200	538	208	2,958	302
	March	3,722	230	-55	642	210	3,043	304
	April	3,711	230	24	733	192	3,040	303
	May	3,892	229	-58	594	238	3,231	305
	June	3,925	218	-29	656	197	3,261	306
	July	3,852	149	284	791	212	3,282	297
	August	3,876	276	-33	676	219	3,225	298
	September	3,718	285	215	883	176	3,159	291
	October	3,503	241	193	710	227	3,000	285
	November	3,579	262	33	784	154	2,935	284
	December	3,543	243	71	805	223	2,829	282
	AVERAGE	•	226	46	723	199	3,088	202
	AVERAGE	3,739	220	40	120	155	3,000	
1982	January	3,171	269	-7	624	-180	2,631	282
	February	3,403	305	-153	663	138	2,755	287
	March	3,466	243	-191	725	161	2,631	293
	April	3,408	309	73	796	204	2,790	290
	May	3,317	318	184	824	210	2,785	285
	June	3,547	315	123	812	216	2,954	281
	July	3,660	408	-1	856	187	3,023	281
	August	3,583	346	217	743	202	3,201	274
	September	3,533	375	105	749	213	3,051	271
	October	3,529	383	244	915	266	2,976	264
	November	3,498	423	-28	837	269	2,786	264
	December	3,324	313	366	885	275	2,842	4 253
	AVERAGE	3,453	334	80	787	211	2,869	200
1000	lanuar:	2 222	007	074	E70	271	2 207	074
1983	January	3,222	297	-371	570		2,307	271
	February	3,270	287	-1	680	232	2,645	271
	March	3,400	298	-94	570 500	249	2,786	273
	April	3,363	377	3	596	247	2,901	273
	May	3,448	364	26	694	242	2,902	273
	June*	3,674	427	99	715	292	3,197	270
	AVERAGE	3,397	342	58	637	256	2,789	

¹ Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, and liquefied petroleum gases.

2 Stocks are totals as of end of period.

A negative number indicates an increase in stocks and a positive number indicates a decrease.
 In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years.

The major impact is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis), end of year stocks would be: 1974-220, 1980-249, and 1982-259. Stock withdrawals during 1975, 1981, and 1983 are calculated using new basis stock levels.

Totals may not equal sum of components due to independent rounding.

See Explanatory Note 9.6.

Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from OPEC Sources¹

	Algeria	Libya	Saudi Arabia	United Arab Emirates	Indonesia	Iran	Nigeria	Venezue-	Other OPEC ²	Total OPEC	Total Arab OPEC ³
	Thousand Barrels per Day										
1973											
AVERAGE 1974	136	164	486	71	213	223	459	1,135	106	2,993	915
AVERAGE 1975	190	4	461	74	300	469	713	979	88	3,280	752
AVERAGE 1976	282	232	715	117	390	280	762	702	122	3,601	1,383
AVERAGE 1977	432	453	1,230	254	539	298	1,025	700	134	5,066	2,424
AVERAGE	559	723	1,380	335	541	535	1,143	690	287	6,193	3,185
1978 AVERAGE	649	654	1,144	385	573	555	919	645	226	5,751	2,963
1979 AVERAGE	636	658	1,356	281	420	304	1,080	690	212	5,637	3,056
1980 AVERAGE	488	554	1,261	172	348	9	857	481	130	4,300	2,551
1981	100		1,201	,,,	040	Ū	457	701	100	4,000	2,501
January	341	500	1,284	93	424	0	908	549	27	4,127	2,219
February	381	468	1,122	93	406	Ö	866	463	92	3,891	2,064
March	352	485	1,027	47	328	Ö	771	360	54	3,425	1,912
April	263	485	1,034	68	307	Ō	812	237	39	3,245	1,867
May	393	443	933	17	297	Ö	664	331	124	3,203	1,796
June	356	380	865	60	367	ŏ	528	248	118	2,922	1,703
July	333	251	1,073	80	340	ŏ	651	466	38	3,233	1,757
August	348	274	1,082	61	377	ŏ	321	523	84	3,070	1,765
September	336	154	1,477	96	371	ŏ	323	359	149	3,264	2,063
October	242	147	1,342	90	427	ő	412	389	172	3,220	1,820
November	210	132	1,270	112	353	0	517	535	56	3,184	1,724
December	176	122	1,045	158	400	0	684	411	132	3,129	1,502
AVERAGE		319	1,129	81	366	0	620	406	90	3,323	1,848
1982											
January	254	161	877	111	289	0	663	376	128	2,859	1,403
February	139	92	693	89	244	0	584	355	102	2,297	1,054
March	91	37	555	155	200	0	522	399	91	2,051	860
April	85	Ō	511	122	215	0	427	426	85	1,871	740
May	179	Ō	601	116	236	0	222	422	54	1 ,830	897
June	115	0	593	94	215	72	537	361	110	2,096	820
July	159	0	660	108	327	69	910	356	9 5	2,685	965
August	181	0	489	133	271	27	574	299	133	2,107	818
September	179	0	432	57	191	21	477	518	69	1,943	677
October	249	7	494	61	242	108	313	504	106	2,084	810
November	247	14	489	47	283	34	479	528	115	2,235	797
December AVERAGE	155 1 70	0 26	237 552	12 92	265 248	88 35	462 514	399 412	73 97	1,690 2,146	421 854
1983										,	
January	204	0	282	47	255	43	186	324	43	1,384	533
ebruary	104	ő	214	9	217	0	92	371	28	1,035	326
March	63	ŏ	103	Ö	138	Õ	121	425	173	1,023	183
April	228	ŏ	180	(8)	210	Ö	186	508	125	1,438	409
Vlay	284	ŏ	122	12	324	37	352	444	69	1,645	419
June	300	ő	175	40	502	38	402	335	146	1,938	515
AVERAGE	198	ŏ	179	18	274	20	225	401	98	1,414	398

¹ Excludes petroleum imported into the United States indirectly from OPEC countries, primarily from Caribbean and West European areas, as refined petroleum products which were refined from crude oil processed in OPEC countries.

Includes Ecuador, Gabon, Iraq, Kuwait, and Qatar.

Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

(*) Less than 500 barrels.

Totals may not equal sum of components due to independent rounding.

Note: Beginning in October 1977, Strategic Petroleum Reserve imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

Crude Oil and Petroleum Product Imports from Non-OPEC Sources¹

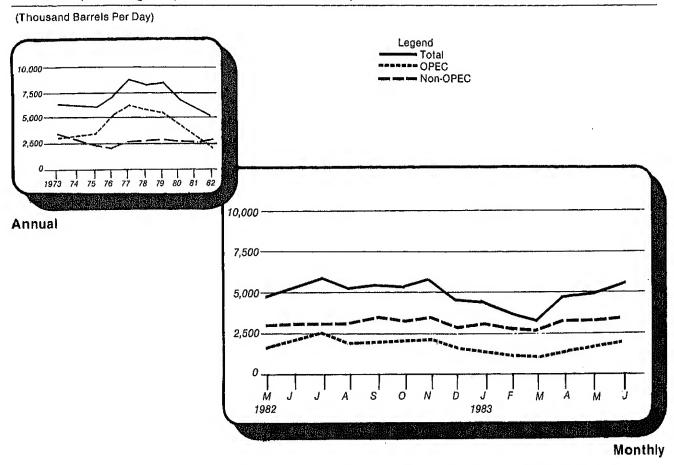
	Bahamas	Canada	Mexico	Netherlands Antilles	Trinidad and Tobago	United Kingdom	Puerto Rico ²	Virgin Islands ²	Other	Total
				Th	nousand Ba	arrels per D	ay			
1973	474	4 005	40							
AVERAGE 1974	174	1,325	16	585	255	15	99	329	465	3,263
AVERAGE 1975	164	1,070	8	511	251	8	90	391	340	2,832
AVERAGE	152	846	71	332	242	14	90	406	300	2,454
1976 AVERAGE	118	599	87	275	274	31	88	422	353	2,247
1977 AVERAGE	171	517	179	211	289	126	105	466	550	2,614
1978 AVERAGE										
1979	160	467	318	229	253	180	94	429	484	2,613
AVERAGE 1980	147	538	439	231	190	202	92	431	548	2,819
AVERAGE	78	455	533	225	176	176	88	388	491	2,609
1981										
January	39	543	401	198	150	233	89	494	552	2,701
February	84	546	437	227	163	271	46	481	626	2,881
March	74	472	488	227	93	263	45	370	571	2,603
April	68	412	418	198	139	402	40	365	380	2,423
May	122	365	522	213	105	368	58	344	474	2,573
June	51	353	538	196	124	397	67	262	525	2,513
July	77	382	384	212	178	553	50	206	541	2,583
August	69	378	489	255	123	592	68	184	539	2,698
September	111	423	708	163	169	528	72	265	661	3,100
October	63	449	669	161	121	351	60	303	562	2,739
November	63	547	628	168	108	253	76	294	421	2,557
December	70	501	587	148	125	280	73	367	563	2,714
AVERAGE	74	447	522	197	133	375	62	327	534	2,672
1982										
January	58	513	425	179	106	346	62	334	452	2,474
February	67	537	476	221	120	181	38	362	508	2,510
March	43	437	503	189	118	294	62	307	480	2,433
April	82	360	476	184	166	247	36	266	690	2,507
May	77	419	766	152	95	516	47	302	607	2,981
June	32	481	797	148	129	557	58	322	708	3,231
July	64	536	783	158	118	433	38	376	698	3,204
August	80	443	853	145	106	520	24	317	650	3,137
September	92	493	897	195	89	631	51	278	746	3,472
October	45	459	682	148	109	666	52	262	801	3,222
November	51	553	860	212	90	623	81	334	706	3,508
December	88	561	689	174	102	438	48	336	480	2,916
AVERAGE	65	482	685	175	112	456	50	316	627	2,968
1983										
January	68	536	849	218	73	315	40	299	588	2,988
February	92	592	722	17 9	81	193	50	192	554	2,655
March	86	488	760	187	78	240	43	162	563	2,606
April	167	452	981	216	85	421	20	183	781	3,306
May	135	501	944	153	108	483	42	235	651	3,252
June	137	576	831	181	120	424	48	252	712	3,281
AVERAGE	114	523	849	189	91	348	40	221	642	3,201

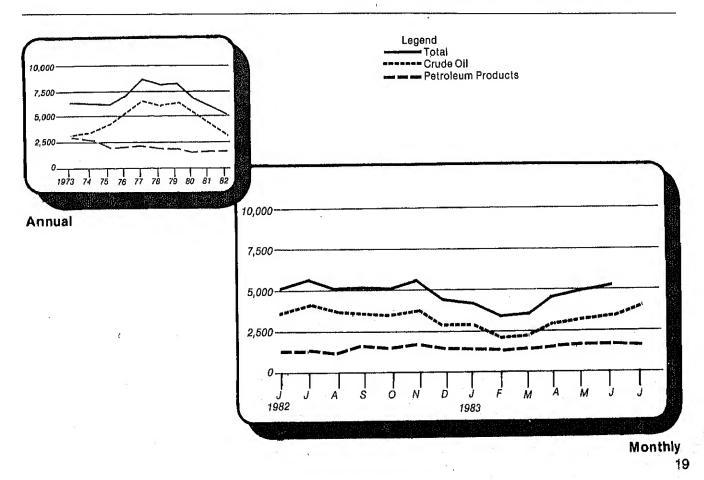
leum imported into the United States indirectly from OPEC countries,

Caribbean and West European areas, as refined aducts which were refined from crude oil produced in OPEC countries. ons.

equal sum of components due to independent rounding.
g in October 1977, Strategic Petroleum Reserve Imports are included.
rerage: The 50 United States and the District of Columbia.

^{3 &}quot;Sources" at the end of this section.





Sources

- 1973 through 1976: Bureau of Mines, U.S. Department of the Interior, Petroleum Statement, Annual and PAD Districts Supply/Demand, Annual, Mineral Industry Surveys.
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, Monthly Petroleum Statistics Report, (unleaded gasoline category).
- 3. 1977 through 1980: Energy information Administration, U.S. Department of Energy, *Petroleum Statement, Annual* and *PAD Districts Supply/Demand, Annual*, Energy Data Reports.
- 4. January 1981 through December 1982: Energy Information Administration, U.S. Department of Energy, *Petroleum Supply Annual*.
- January 1983 through June 1983: Detailed statistics in appropriate issues of the Petroleum Supply Monthly. (See Explanatory Notes 9.1 through 9.6).
- July 1983: Estimates based on EIA weekly data (except domestic crude oil production) (see Explanatory Note 1.1).
- 7. January 1983 through July 1983: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies the U.S. Geological Survey. (See Explanatory Note 3).

Detailed Statistics



Table 1. U.S. Petroleum Balance, June 1983

		Current	Month	Year-t	
		Thousand Barrels	Thousand Barrels per Day	Thousand Barrels	Thousand Barrels per Day
	Crude Oil (Including Lease Condensale)		, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	po. 04,
ľ	Field Production				
(1)	Alaska	E 51,312	1,710	E 310.085	1,713
(2)	Lower 48 States	E 208,980	8,966	E 1,259,080	6,956
(3)	Total U.S.	E 260,292	8,676	€ 1,5 6 9,165	8,669
	Net Imports	·	-,	1	-,
(4)	Imports (Gross Excluding SPR)	99,359	3,312	484,377	2,676
(5)	SPR Imports	5,696	190	39,314	217
(6)	Exports	4,306	144	31,966	177
(7)	Imports (Net Including SPR)	100,749	3,358	491,725	2,717
(0)	Other Sources				
(8) (9)	SPR Withdrawal (+) or Addition (-)	-5,651	-188	-38,657	-214
(9) 10)	Other Stock Withdrawal (+) or Addition (-)	755	25	-3,805	-21
11)	Product Supplied and Losses	-1,939	-65	- 1 1,958	-66
12)	Unaccounted for 1 Total Other Sources	14,407	480	48,087	266
	Crudo Input to Refineries	7,572	252	-6,333	-35
اد.)	Crude Input to Refineries	368,613	12,287	2,054,557	11,351
۱ (14	Natural Gas Plant Liquids (NGPL)				
•	Field Production	45,422	1,514	280,405	1,549
15)	Imports 2	94	3	1,710	9
16) 17)	Stock Withdrawal (+) or Addition (-) 2	-1,129	~38	-3,191	-18
17)	Total NGPL Supply	44,387	1,480	278,924	1,541
	Other Liquids				
	Unfinished Oils and Gasoline Blending Components, Total				
18)	Stock Withdrawal (+) or Addition (-)	271	9	-2,942	-16
19)	Imports	9,736	325	43,494	240
20)	Other Hydrocarbons and Alcohol New Supply (Field Production)	2,143	71	9,732	54
21)	Refinery Processing Gain 1	15,025	501	85,971	475
22)	Crude Oll Product Supplied	1,924	64	11,671	64
23)	Total Other Liquids	29,099	970	147,926	817
	(23) = (18) through (22)				
:4) (2	Total Production of Products 3	442,098	14,737	2,481,408	13,709
	let Imports of Refined Products 3				
(6)	Imports (Gross)	41,640	1,388	233,156	1,288
7)	Exports	18,914	630	121,053	669
.,	Imports (Net)	22,726	758	112,104	619
81.7	Total New Supply of Products	101.001	45.484		
(2	28) = (24) + (27)	464,824	15,494	2,593,512	14,329
9) F	Refined Products Stock Withdrawal (+) or Addition (-) 3	-6,395	-213	101,354	560
		·			500
(3	Total Petroleum Products Supplied for Domestic Use	458,429	15,281	2,694,866	14,889
1)	Finished Motor Gasoline	210,251	7,008	1,174,198	6,487
2)	Distillate Fuel Oil	75,788	2,526	484,494	2,677
3)	Residual Fuel Oil	39,509	1,317	262,402	1,450
4)	Liquetied Petroleum Gases	35,056	1,169	257,286	1,421
5)	Olher4	95,901	3,197	504,815	2,789
6)	Crude OII	1,924	64	11,671	64
7)	Total Product Supplied	468,429	15,281	2,694,867	14,889
	(37) = (31) through (36)			2,00 1,007	14,000
E	nding Stocks, Ali Oils				
8)	Crude Oil and Lease Condensate (Excluding SPR)	353,849		353,849	
9)	Strategic Petroleum Reserve (SPR)	332,484			
U)	Unlinished Oils	110,118		332,484	
1)	Gasoline Blending Components	40,646		110,118	
2)	Natural Gasoline and Unfractionated Stream ²	14,659		40,646	
3)	Finished Refined Products 3	557,502		14,659 557,502	
-	Total Stocks	1,409,258		1,409,258	
4)	TOTAL OTOTAL ACTION OF THE PROPERTY OF THE PRO				

¹ A balancing Item.
2 Includes isopentane, natural gasoline, unfractionated stream, and plant condensate only.
3 For products included see Explanatory Note 9.7.
4 Includes natural gasoline and isopentane, unfractionated stream, plant condensate, other liquids; and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil and liquefied petroleum gases.

E = Estimated.

E = Estimated.

-- Not Applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes 1, 2 and 9.7.

nd Disposition of Crude Oil and Petroleum Products, June 1983 s of Barrels)

			Supply				Dispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi-	Unac- counted For Crude Oil1	Crude Losses	Refinery Inputs	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 260,292	0	105,056	-4,896	14,407	15	368,613	4,306	1,924	686,333
Natural Gae I ferride and I DC.										
Natural Gasoline and Isonomian	45,053	10,771	5,261	-11,128	0	0	12,462	1,759	35,736	120,778
Unfractionated Street	6,914	0	0	-870	0	0	5,366	0	678	5,812
Plant Condonnate	223	0	0	-223	0	0	0	0	0	/,40/
	882	0	94	-36	0	0	941	o	2	440
Ethans	37,031	10,771	5,167	666'6-	0	Þ	6,155	1,759	35,056	106,119
Doores	7,587	625	096	297	0	٥	73	(S)	965,6	5,932
Propane	13,279	8,335	1,047	-6.365	0	0	108	762	15,426	54,181
burane	6,205	1,614	1,004	-1.898	0	C	4.664	997	1,265	20,490
Butane-Propane Mixtures	146	192	930	-165		· c	253		850	1.256
Ethane-Propane Mixtures	7,043	0	1.225	-170	o C	o C	3		8.098	13,535
Isobulane	2,771	ß	٥	-1,698	0	0	1,057	0	21	10,725
Other Liquids		•								
Other Hydrocothons and Aleshal	2,143	0	9,736	27.1	0	0	15,158	0	-3,008	150,764
Hafnished Oile	2,143	0	0	တ္ထ	0	0	2,196	0	0	560
Motor Consider Contract of the	0	0	8,470	2,284	0	0	12,332	0	-1,578	110,118
Awarton Genelia Diending Components	0	0	1,266	-2,108	0	0	626	0	-1,468	39,919
Aviation describe plending Components	0	0	0	42	0	0	4	0	38	467
Finished Dates Community Bank St.										
Enished Metal County	369	400,487	36,473	3,604	0	0	0	17,155	423,778	451,383
Emishod Coded Man One	61	199,331	7,957	3,548	0	0	0	647	210,251	183,317
Enished Leaded Motor Gasoline	45	93,763	3,892	-683	0	0	0	647	96,370	95,402
Enished Ariotics Court -	16	105,568	4,065	4,231	0	0	0	0	113,880	87,915
Noother Time In Casoline	134	774	(s)	44-	0	0	0	0	864	2,478
Vocation Time 11 miles	0	6,467	0	-199	0	0	0	(S)	6,268	906'9
Konsone Jype Jet Fuel	0	24,860	746	503	0	c	0	2	25,794	34,374
Catalote Cod Ca	က	2,186	7	185	0	c	0	28	2,323	8,048
Doctor Car Car	0	76,363	5,257	-4,629	0	0	0	1.203	75,788	113,805
Noaktho / 100 P 7 P	0	24,947	20,270	847	0		· c	6.555	39,509	50,085
Mahilula < 400 Deg. for Petro. Feed. Use	0	4,035	4	253	· c		· c	86	4.644	1,869
Orner Oils > 400 Deg. for Petro. Feed. Use	0	7,802	172	-134	· c	0 0	· c	541	7.299	2,097
Special Naphthas	118	1,660	930	6	· c	o c	o c	37	2762	3.247
Lugncants	0	4,420	276	395	0 0	> C	•	202	4.589	11,734
Waxes	0	522	16	30		> 0	9 0	3 4	507	α r
Petroleum Coke	0	12.901	2 C	8 8	> 0	> (> 0	1	250	440
Asphalt and Road Oil	· c	14 863	37g	500	> (> (5 (7,436	10,010	OF 074
Still Gas	Ç	17.961	5	n c	> c	0 (-	y c	17,139	- 60,63
Miscellaneous Products	. 2	1 305		2 6	5 (9	> (>	06.7	2 6
	3	2001	7	DQE.	0	0	0	80	1,801	388,1
Total	307.857	411.258	156 525	12 140	107 77	,	000 000	10000	450 430	1 400 250
		•		1	104.40	ū	030,000	1	-4C,	ייייייייייייי

Unaccounted for crude oil is a balancing item.
 Less than 500 Barrels per day.
 E = Estimated.
 Note: Totals may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January-June 1983 (Thousands of Barrels)

Field Product Potator Product	Produc- tion 523,691 55,701 36,864 0 235 0 1,475 0 1,475 2,552 7,655 48,243 8,994 4,288 8,043 523 3,640 0 6,821 95 0 43,494	Stock With- drawal (+) or Addi- tion (-) -42,462 -6,592 -825 -3,368 1,002 -3,401 3,39 4,056 -3,808 869 -2,942 -2,942 -1,823	Unac- counted For Gude Oilt 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crude Losses 287 287 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,054,557 2,054,557 78,268 31,723 169 5,648 40,728 475 752 24,107 1,261 0	s Exports 57 31,966 68 17,579 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Products Supplied 11,671 268,376 11,077 12 257,286 55,433 129,993 14,928 4,817 51,473 643	Stocks Stocks 120,778 6,812 7,407 106,119 5,932 5,4181 20,490 1,256 13,535 10,725 150,764 260
278,249 278,249 43,390 3,537 3,183 228,139 45,662 80,574 80,577 1046 46,905 11,046 11,	2 4	42,462 -6,592 -3,368 -3,368 -3,368 -4,058 -3,808 -2,253 -2,304 -2,306 -2	8,087 0 0 0 0 0 0	287	2,054,557 78,268 31,723 169 5,648 40,728 475 752 24,107 1,261	31,966 17,579 0 0 17,579 11,122 6,456 0 0	268,376 11,077 11,077 12,286 55,433 129,93 14,928 4,817 51,473	686,333 120,778 6,812 7,407 106,119 5,932 5,932 5,4181 20,490 1,256 13,535 10,725 150,764
278,249 43,390 3,537 3,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,183 2,184 2,185 2,187 2,1		4, 592 2,368 3,368 3,401 3,401 3,808 2,268 2,304 2,304 2,304 1,44 1,44 1,831	0000000000000000000000000000000000000	000000000	78,268 31,723 169 5,648 40,728 475 752 24,107 1,261 1,261	17,579 0 0 17,579 11,122 6,456 0 0	268,376 11,077 12,00 257,286 55,433 129,993 14,928 4,817 51,473	120,778 6,812 7,407 440 106,119 5,932 5,932 5,4181 20,490 1,256 13,535 10,725 150,764
228,139 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,183 3,194 46,905 1,104 46,905 1,104 46,905 1,11 1,14		4, 592 1,002	0 00000000000000000000000000000000000	000000000	78,268 31,723 1,723 169 5,648 40,728 475 752 752 24,107 1,261	17,579 0 0 17,579 11,122 6,456 0	268,376 11,077 0 0 257,286 55,433 129,993 14,928 4,817 51,473 643	6,812 7,407 7,407 106,119 5,932 54,181 20,490 1,256 13,535 10,725 10,725
3,537 3,537 3,183 228,139 45,662 80,574 80,574 10,046 46,905 10,046 46,905 10,046 11,1	4	4825 3,368 3,400 4,400 4,568 4,553 4,553 4,44 1,571 1,	000000000000000000000000000000000000000	00000000	31,723 169 169 5,648 40,728 475 752 24,107 1,261 1,261	0 0 17,579 11,122 6,456 0	11,077 0 0 257,286 55,433 129,993 14,928 4,817 51,473 643	6,812 7,407 440 106,119 5,932 54,181 20,490 1,256 13,535 10,725 10,725 260
3,537 3,537 3,183 2,84,139 45,662 80,574 1,046 46,905 1,046 46,905 1,046 46,905 1,106 1	. 4	-3,368 1,002 1,002 3,401 2,808 2,253 2,304 2,304 1,51 1,531	00000000 000	0000000	169 5,648 40,728 475 752 24,107 1,261 1,261	0 17,579 11,122 6,456 0	257,286 55,433 129,993 14,928 4,817 51,473	7,407 440 106,119 5,932 5,932 54,181 20,490 1,256 13,535 10,725 150,764
23,183 45,662 80,574 45,662 80,574 1,046 1	W 4	7,002 7,401 7,401 7,405 7,208	0000000 000	000000	5,648 40,728 475 752 24,107 1,261 14,133	17,579 11,122 6,456 0	257,286 55,433 129,993 14,928 4,817 51,473	1,06,119 5,932 54,181 20,490 1,256 13,535 10,725 150,764 260
228,139 45,662 80,574 36,967 10,46 46,905 10,46 46,905 10,46 46,905 10,46 10,46 11,14 11,1	. 4	3,401 39,056 3,808 86,98 2,2,253 2,2,530 4,4,4,4 1,831 1,831		00000	40,728 475 752 24,107 1,261 14,133	17,579 11,122 6,456 0 0	257,286 55,433 129,993 14,928 4,817 51,473	106,119 5,932 54,181 20,490 1,256 13,535 10,725 150,764 260
45,662 80,574 80,574 80,574 80,574 80,574 80,574 80,574 80,573 80,732 90,732		2, 2, 2, 2, 3, 3, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	9900000 000	00000	24,107 24,107 1,261 14,133	11,379 11,122 6,456 0	55,433 129,993 14,817 51,473 643	5,932 5,4181 20,490 1,256 13,535 10,725 150,764 260
80,574 80,574 38,967 1,046 48,905 16,985 16,985 16,985 16,985 17,046		2, 4, 4, 5, 5, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8,	00000 000	0000	475 752 24,107 1,261 14,133	1,122 6,456 0 0	55,433 129,993 14,928 4,817 51,473 643	5,932 54,181 20,490 1,256 13,535 10,725 150,764 260
90,574 10,46 46,905 10,46 46,905 10,46 46,905 10,46 46,905 10,46 46,905 10,46 10,46 46,905 10,46	4	4,056 2,253 2,253 2,253 4,2,42 1,5,41 1,831	0000 0 0 00	0000	752 24,107 1,261 0 14,133	11,122 6,456 0 0	129,993 14,928 4,817 51,473 643	54,181 20,490 1,256 13,535 10,725 150,764 260
9,732 9,732 9,732 9,732 9,732 9,732 9,732 9,732 9,732 1,11 146 146 160 170 180 190 190 190 190 190 190 190 19	4	-3,808 -2,253 -2,304 -2,342 -4, 4, 51 -1,831	0000 0 00	000	24,107 1,261 0 14,133	6.456 0 0	14,928 4,817 51,473 643	20,490 1,256 13,535 10,725 150,764 260
1,046 1,046 46,905 16,985 16,985 16,985 16,985 1732 9,732 9,732 9,732 16,985 11 146 11 11 11 11 11 11 11 11 11 11 11 11 11	4	869 -2,253 -2,304 -2,942 -4, 851 -1,823	୦୦୦ ୦ ୦୯	00	1,261	000	4,817 51,473 643	1,256 13,535 10,725 150,764 260
6,905 16,985 16,985 16,985 16,985 1732 1732 1746 1746 1746 1747 1746 1746 1746 1746	4	-2,253 -2,304 -2,942 -4,841 1,871	00 000	0	14 133	000	51,473	13,535 10,725 150,764 260
9,732 9,732 9,732 9,732 0 0 entis 0 0 0 146 322 146 322 146 322 146 322 146 322 146 322 146 322 146 322 146 146 322 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-2,30¢ -2,942 -2,842 -2,843 -2,30¢	0 000	•	14 133	0	643	16,725 150,764 260
9,732 9,732 9,732 0 0 ents 0 ents 2,157 2, 468 1, 322 146 322 322 382 146 382 146 382 146 382 146 382 146 382 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 43,494	-2,942 -5,142 -4,841 -1,823	0 00	C		•	ţ	150,764 260
9,732 9,732 9,732 0 ents — 0 ontine =	0 43,494	-2,9 42 51 4,841	0 00)	-			150,764 260
9,732 ts		4. 1.84.1 1.823	000	G	77 743	c	OCA 70.	260
ents 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		4,84 1823	• 6		0 783	•	074.13	202
ts	0 37.899	1823			30,00			
2,157 2,468 1,468 1,46 382 382 382 382 382 382 382 382 382 382			o c	o c	40,000	9	/96,51-	811,011
2,157 2, 468 1, 146 1,		3131.		> (01/17	>	-14,300	39,919
2,157 2, 468 1, 322 468 1, 146 322 1, 146 1,	9	Q.	0	0	286	0	-561	467
322 322 322 322 382 382 382 382 382 382	•	204 704	•	•	•		:	
355 1355 1355 1355 1355 1355 1355 1355	2000 C	104,735	> (-	0 1	103,474	2,442,248	451,383
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		022'sL	ə	0	0	1,475	1,174,198	183,317
		6,753	0	0	0	1,475	537,886	95,402
	9	12,467	0	0	0	0	636.312	87,915
0-00000	3,742 210	-164	0	0	0	0	4.170	2478
- 0,0000		283	0	0	0	201	38.564	906
, , , , , , , , , , , , , , , , , , ,	45,055 4,444	-2,373	0	0	0	909	146.527	34 374
0000		2,744	0	0	0	8	22 891	8,048
000		71,774	0	0	0	14.295	484 494	113,805
00		18.144	0	0		41.463	252.402	50,085
0	61	98	0	0	0	969	26.315	1 869
		83	0	0	0	2 646	45,603	700.6
	9,618 3,395	227	0	0	0	431	13 348	3 2 4 7
0	25,024 1,335	1,447	0	0	· C	2 807	24 999	11 734
0		-58	. 0	c	· c	13.6	25.22	740
0		272	· c	· c	c	38 202	900,20	0 0
Asphalt and Road Oil	58,514 919	-7.802	· C	· c	• •	102.00	7 7 7 6	00.00
0	95.314		· c	c	• =	3	7 6 90	- 70,53
738	9,857 2,981	53.1	0	0	0 0	72.0	13 937	1 388
					•	:		2
Total	96,508 802,052	52,759	48,087	287	2,210,537	153,018	2,694,867	1,409,258

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels.
 E = Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 4. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, June 1983 (Thousand Barrels per Day)

			Stooly				Dispo	Disposition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal(+) Addi- tion(-)	Unac- counted For Crude	Crude	Refinery Inputs	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,676	•	3,502	-163	480	-	12,287	144	2
Natural Case Limites and 100							!	1	,
Natural Gasoline and Income	1,502	328	175	-371	0	Φ.	415	66	1,191
I Infractionated Control I Sopeniane	230	0	0	87	0	0	179	0	S
Dist Condocate	7	0	0	7	0	0	0	0	(s)
	න	0	ო	7	0	0	3	0	(S)
Lyduelled Petroleum Gases	1,234	329	172	-333	0	0	205	29	1,169
Cuane de la company de la comp	253	21	35	9	0	0	۲	(S)	313
Propane	443	278	35	-212	0	0	4	52	514
Surane	207	75	8	1 2	· c	c	155	33	42
Butane-Propane Mixtures	ທ	9	3 6	3 47	¢		60	0	28
Ethane-Propane Mixtures	235	,	14	PΥ	, c	o c	0	0	270
Isobutane	92	(s)	•	-57	0	0	35	0	-
Office I see I									
Onici Liquida	F	0	325	6	0	0	505	0	100
Uner Hydrocarbons and Alcohol	71	0	0		C	٥	73	0	0
Unincipled Oils	0	0	282	1 92	c	0	411	0	ဌ
Motor Gasoline Blending Components	0	0	42	-70		0	23	0	4
Aviation Gasoline Blending Components	0	0	0	: -		0	(8)	0	-
:			•		•	•	ì		
rinished Petroleum Products	12	13,350	1.216	120	~	c	C	225	14.126
Finished Motor Gasoline	8	6.644	265	118	-	c	-	22	7.008
Finished Leaded Motor Gasoline	-	3,125	130	2 2	o c) C	0	8	3,212
Finished Unleaded Motor Gasoline	-	3,519	136	141	o c	· c	0	0	3,796
	4	92	(8)	7	o c	· c	· c	c	60
Naphtha-Type Jet Fuel	•	216	ì	- ^	> 0	S C	,	9	2 5
	-	000	א פ	ì	> 0	> 0	0 6	2	88
Kerosene) (2)	3 22	3	~ 0	> 0	> 0		٠ ،	3 5
		2 5.45	175	,	۰ د	.	0 0	1 5	2016
	•	25.0	070	104		o (0	3 5	4,020
Naphtha < 400 Deg. for Petro. Feed 11se	9 0	3 5	0 1	8	5	.	> (20	2 1
•	> 0	5 6	<u>0</u>	x	0	0	0	י פי	6
Special Nachthas	> :	797	9	4	0	0	0	4 8	243
deliberation of the second of	4	55	3	က	0	0	٥	-	35
Wood	0	147	0	13	0	0	0	17	53
Datale	0	17	-	٦	C	0	0	-	16
Petroleum Coke	0	430	٥	. 20	•	· c		248	502
Asphalt and Road Oil	0	495	, L	1 1	0 6	•	•	, ,	27.5
	0	200	2 <	3 9	> 0	0 0	•	- c	100
Miscellaneous Products	۰ ۸	46	·	- ç	> (-	> 0	> +	66
	1	ř	-	ZL	D	0	0	-	8
Total	10.262	13.709	5.21R	405	007	•	13 200	77.4	15 284
			1	2	460	-	13,500	*	103601

¹ Unaccounted for crude oil is a balancing item.

(s) Less than 500 Barrels per day.

E = Estimated.

Note: Totals may not equal sum of components due to independent rounding.

Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-June 1983 (Thousand Barrels per Day)

	_						Disp	Disposition	
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal(+) Addi- tion(-)	Unac- counted For Crude Oil1	Crude	Refinery	Exports	Products Supplied
Crude Oil (including lease condensate)	E 8,669		2,893	-235	266	8	11,351	177	64
Natural Gas Liquids and LRGs	1,537	308	204	-36	0	0	432	26	1.483
Natural Gasoline and Isopentane	240	0	-	τŲ	0	0	175	0	61
Unfractionated Stream	20	0	0	-19	0	0	•	0	(s)
Plant Condensate	18	0	89	9	0	0	31	0	(s)
Uquened Petroleum Gases	1,260	308	194	-19	0	0	225	26	1,421
Ethane	252	14	45	(s)	0	0	က	(s)	306
	445	267	20	ដ	0	0	4	61	718
Butane	204	24	4	-5	0	0	133	36	85
Butane-Propane Mixtures	φ	ო	20	သ	0	0	7	ò	27
Ethane-Propane Mixtures	528	0	38	-12	0	0	0	0	284
isobulane	94	-	0	13	0	0	78	0	4
Other Liquids	55	c	240	118	•	c	420	c	,
Other Hydrocarbons and Alvohol	, v	• •		3	• 0	•	57	5 (701-
Unfinished Oils	ξ <	o c	9 00	(6)	- 0	> 0	y 6	0 0	Φ (
Motor Gasolina Blooding Components		o c	503	7,	> <	9 (707	5	3
Aviation Gasoline Blanding Components	o c	> c	5, °	2 3	0	5 (120	0	-79
	5	>	>	<u>e</u>	>	>	m	Þ	ማ
Finished Petroleum Products	72	. 12.380	1.094	579	G	c	c	572	13 403
Finished Motor Gasoline	m	6 166	220	90	· c	• =	• <	10	0.407
Finished Leaded Motor Gasoline	0	2812	128	37	o c	o c	•	οα	0,40,0
Finished Unleaded Motor Gasoline	-	3,354	95	69	0	• •	· c	o c	2,50
Finished Aviation Gasoline	N	27	-	: T	0	· c	• •	o c	200
Naphtha-Type Jet Fuel	0	213	(S)	N	0	0	0	•	23
Kerosene-Type Jet Fuel	(8)	801	52	-13	0	0	0	. 00	810
Kerosene	જ	107	s	15	0	0	0	(s)	126
Distillate Fuel Oil		2,268	91	397	0	0	0	62	2,677
Northly 100 Car In Part Fall II.	Φ •	888	089	9	0	0	0	229	1,450
Other Other Care and Design for Pero. Peed, Use	0 (136	12	-	0	0	0	4	145
Cassist Noahttee	0 0	265	•- <u>{</u>	(S)	0	0	0	15	252
Special Maprial des	m (3 (<u>6</u>	•	0	0	0	α	74
MANAGEMENT	> (138		∞	0	0	0	5	138
Detections Only	- (5	- ((s)	0	0	0	-	5
Ashbatt and Boad Oil	D	40.5	01	ოქ	0 (0 (0	212	196
Aspidal allu nodu Oli	> 0	323	n	4.	0 (0 (0	•	584
Misoslopone Droducts	-	227	- ;	0 (0 (0 (0	0	527
MISCERAIROUS FIGURES	4	4	9	m	D	0	Φ	-	77
Total	10,272	12,688	4,431	291	266	8	12,213	845	14,889

Unaccounted for crude oil is a balancing item.
 Less than 500 barrels per day.
 E Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 6. PAD District I, Supply and Disposition of Crude Oil and Petroleum Products, June 1983 (Thousands of Barrels)

			II.S.	Supply				Disp	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	€ 2,412	01	26,114	133	454	4,095	ო	33,205	0	0	16,084
Natural Gas Liquids and LRGs	866	1.364	229	-369	0	1.336	0	123	65	3,238	4,919
Liquefied Petroleum Gases	736	1,364	83	-367	0	1,336	0	107	99	3,126	4,870
The property of the property o	130	0	0	c _l	0	0	0	16	0	112	4
Other Liquids	7	0	2.167	581	c	1.148	0	4,534	0	£3.1	17,871
Other Hydrocarbons and Alcohol	7	0	0	4	0	0	0	48	0	0	36
Uninished Oils	0	0	1,955	815	0	1,069	0	4,240	0	401	13,320
Aufactor Gassuine Diending Components	0	o	212	-300	0	79	0	246	0	-255	4,515
Aviation describe biending Components	0	0	0	52	0	0	0	0	0	22	0
Finished Petroleum Products	54	38,308	29,186	220	c	69 025	•	c	433	136.361	144,918
Finished Motor Gasoline	22	19.076	6.281	2 634		43 312	o C	· c	-	71,356	56,765
Finished Leaded Motor Gasoline	4	7,648	2,659	4 4 8 1 8 1	0	18 492	,	• 0		28,424	29,982
Finished Unleaded Motor Gasoline	9	11,428	3,621	3,052	0	24,820	0	0	0	42,931	26,783
Mather Time 12 Time	0	33	(s)	-29	0	138	0	0	0	112	604
Kernesse Time Let Eucl	0	594	0	115	0	402	0	0	0	1,111	436
Konsono	0	984	296	623	0	7,865	0	Q	0	10,068	8,307
Distillate Good Oil	0	00 y	7	280	0	248	0	0	-	504	3,561
Residual Fuel Oil	0 (7,802	4,513	-3,929	0	13,594	0	0	(S)	21,979	41,131
Naphtha and Other Oils for Petrochem.	>	2,036	16,706	121-	0	2,261	0	0	(s)	21,483	23,300
Feedstock	0	345	33	14	c	ĕ	c		45	378	33
Special Naphthas	0	88	455	92	•	2 5	0 0	• •	4	838	743
Lubricants	0	605	232	348	٥	360	0 0	0	16	1,454	3,109
Waxes	0	63	6	æ	0	0	0	0	ហ	66	162
Petroleum Coke	0	1,108	0	99	0	0	, o	0	246	928	767
Asphair and Hoad Oil	0	3,043	359	143	0	315	0	0	27	3,832	5,040
Miscollescence Design	0	1,754	0	0	Q	0	0	0	.0	1,754	0
Miscella Jeous Floducis	0	224	2	42	0	208	0	0	12	465	292
Total	3,339	39,672	57,697	565	454	75.604	en	37.862	498	138,967	183,792
		j					ı				

1 Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
(s) Less than 500 barrels.
E Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 7. PAD District II Supply and Disposition of Crude Oil and Petroleum Products, June 1983 (Thousands of Barrels)

			nS.	Supply				Dien	Dienocation		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 30,750	0	15,054	3,626	34,564	1,658	9	84,866	780	0	78,430
Natural Gas Liquids and LRGs	8,573	2,240	3,203	-4,070	0	6,623	0	3.676	391	12.502	39.574
Liquefied Petroleum Gases	8,624	2,240	3,203	4,200	00	4,928	00	2,214	39.1	12,190	35,744
	5	•	•	3	>	C80'-	>	1,462	0	312	3,830
Other Liquids	1,394	0	491	909	0	1,010	0	2,697	o	704	26,622
Uner Hydrocarbons and Alconol	1,394	0 (0	8	0	0	0	1,396	0	0	117
Motor Despite Blooding Company	-	o (828	1,080	0 (9	0	353	0	965	18,028
Aviation Capation Distriction Commenced	-	5 (263	-553	0	1,000	0	971	0	-261	8,259
Avaion desource plending components	5	0	0	-53	0	0	0	eş P	0	٥	218
Finished Petroleum Products	7	93,222	1,646	3,182	0	19.881	c	c	27.4	117 554	447 700
Finished Motor Gasoline	0	54,821	291	1,483	0	12.261	0	0	, c	88.85	55,700
Finished Leaded Motor Gasoline	0	27,611	240	517	0	6,939	0	0	0	35 307	29.419
Finished Unleaded Motor Gasoline	0	27,210	51	996	0	5,322	0	0	0	33,549	26,021
Mother Time In First	0	118	0	39	0	151	0	0	0	308	575
Kapana-iype jet fluei	0 0	930	0 1	-118	0	161	0	o	0	973	1,639
Kerosene i ype del ruel	5 6	4,025	0 (-291	0	1,003	0	0	0	4,737	8,448
Distillate Firel Oil	-	17 050	9	165	0 0	40	0 (0	0	169	1,792
Residual Fuel Oil	, c	1 875	8 8	3 5	o c	767'0	> 0	-	- (24,697	29,563
Naphtha and Other Oils for Petro. Feed.	0	523	47	84	0	5 6	o c	> C	2 2	7,31/	3,741
Special Naphthas	0	388	100	-206	0	175	0	o c	ţĸ	452	728 728
Lubricants	0	212	œ	7	0	253	0	0	, E	100	2 2
Waxes	0	9	4	-16	0	0	0	0	S S	48	o j
Petroleum Coke	0	3,171	0	458	0	0	0	0	283	3.336	1 598
Asphalt and Road Oil	0	4,371	თ	904	0	602	0	0	N	5.883	11,707
Sall Gas	0	4,173	0	0	0	0	٥	0	٥	4,173	٥
Miscellaneous Products	7	168	ហ	ç	0	-153	0	0	-	21	155
Total	40,724	95,462	20,395	3,244	34,564	29,172	G	91,239	1,546	130,770	262,414

1 Unaccounted for crude oil is a balancing item.
2 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
2 Less than 500 barrels.
E Estimated.
Note: Total may not equal sum of components due to independent rounding.
Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 8. PAD District III Supply and Disposition of Crude Oil and Petroleum Products, June 1983 (Thousands of Barrets)

			Su	Supply				Dispo	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawa! (+) or Addi- tion (-)	Unac- counted For Crude	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
· Crude Oil (including lease condensate)	E 124,995	0	52,422	-4,576	-18,125	14,384	9	169,068	0	22	488,806
Natural Gas Liquids and LRGs	32,235	5,512	930	-6.594	0	-7,101	0	7,532	1,204	16,246	73,102
Liquefied Petroleum Gases		5,512	930	-5,340	00	-6,299	00	3,111	1,204	16,728 -482	62,955 10,147
Other Liquids		•	080	242		946	c	000	•	-3.638	67.557
Other Hydrocarbons and Alcohol	387	• 0	0000	10	• 0	0	0	397	0	0	100
Unfinished Oils	0	0	5.784	645	0	-1.079	0	6,712	0	-1,362	50,504
Motor Gasoline Blending Components	0	0	197	-446	0	-1.079	0	960	0	-2,288	16,758
Aviation Gasoline Blending Components	0	0	0	34	0	0	0	23	0	13	195
Finished Petroleum Products	289	184,114	3,125	-248	0	-92.173	0	0	9,043	86,074	123,942
Finished Motor Gasoline	0	87,704	0	-184	0	-57.267	0	0	627	29,626	47,895
Finished Leaded Motor Gasoline	0	40,369	0	-218	0	-26,345	0	0	627	13,179	24,120
Finished Unleaded Motor Gasoline	0	47,335	0	34	0	-30,922	0	0	0	16,447	23,775
rinished Aviation Gasoline	134	301	0	23	0	-316	o	0	0	142	657
Naphtha-Type Jet Fuel	0	3,180	0	-122	0	-692	0	0	(s)	2,366	2,725
Kerosene-Type Jet Fuel	0 (12,191	28	-685	0	-9,525	0	0	۱ ۰	2,009	11,724
Distillate Fuel Oil	n c	25,005	္င	-275	0 0	-288	0 0	0 0) o	1,022	20,728
Residual Fuel Oil	•	10,030	2 135	18-	0	9/1/81-	0	o c	950	1,330 8,538	13.533
Naphtha and Other Oils for Petro. Feed.		10,197	533	139	0	86,7	00	0 0	359	10,442	3,019
Special Naphthas	-	1,150	356	217	0	466	o	0	25	1,349	1,431
Lubneants	0	2,670	36	-214	0	-573	٥	0	343	1,576	5,308
Waxes	0	298	-	-26	0	0	0	0	7	566	479
Peroleum Coke	0	4,825	0	-15	0	0	0	0	4,150	099	797
Asphalt and Road Oil	0	4,195	0	687	0	-917	0	0	(s)	3,965	3,631
Sull Gas		7,615	0	0	0	0	0	0	0	7,615	0
Miscellaneous Products		807	ιO	213	0	-15	0	0	F	1,043	716
Total	157,916	189,626	62,457	-11,175	-18,125	-87,048	10	184,690	10,247	98,704	753,407
1 Classical Action Control of the Co											

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 9. PAD District IV Supply and Disposition of Crude Oil and Petroleum Products, June 1983 (Thousands of Barrels)

			3	Comple					200		
	-		one) J	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 17,013	. •	1,506	\$	-5,258	0	0	13,297	0	7	14,812
Natural Gas Liquids and LRGs	2,221	119	379	35	0	-858	0	452	0	1,443	1,094
Liquefied Petroleum Gases	812	119	285	33	0	35	٥	304	0	980	517
Other Products2	1,409	0	94	-	0	-893	0	148	0	463	22.5
Other Liquids	7	0	147	383	0	0	0	-149	0	681	4,908
Other Hydrocarbons and Alcohol	2	0	0	7	0	0	o	-	0	0	
Unfinished Oils	0	0	147	313	0	0	0	-238	0	869	2,860
Motor Gasoline Blending Components	0	0	0	71	0	0	0	88	0	-17	2,047
Aviation Gasoline Blending Components	0	0	0	0	0	0	0	0	0	0	0
Finished Petroleum Products	σ	13,693	112	1,156	0	-210	0	0	ო	14,758	12,535
Finished Motor Gasoline	7	7,156	72	593	0	-291	0	0	Φ	7,537	4,664
Finished Leaded Motor Gasoline	-	4,425	71	369	0	-254	0	0	0	4,612	2,964
Finished Unleaded Motor Gasoline	တ	2,731	-	224	0	-37	0	0	0	2,925	1,700
Finished Aviation Gasoline	0	53	0	?	0	27	0	0	0	54	54
Naphtha-Type Jet Fuel	0	355	0	-50	0	-87	0	0	0	248	367
Kerosene-Type Jet Fuel	0	169	0	10	0	387	0	0	0	1,088	754
Kerosene	0	2	0	0	0	0	0	0	0	2	27
Distillate Fuel Oil	0	3,599	93	148	0	-246	0	0	0	3,532	2,801
Residual Fuel Oil	0	246	ф	89	0	0	0	0		323	437
Naphtha and Other Oils for Petro. Feed	0	0	0	-	o :	0	0	0	(S)	-	co.
Special Naphthas	0	4	0	7	0	0	0	0	0	ო	-
Lubricants	0	ဓ		œ	0	0	0	0	Ø	36	72
Waxes	0	ග	0	o	٥	0	0	0	0	đ	4
Petroleum Coke	0	263	0	-15	o	0	0	0	0	248	952
Asphalt and Road Oil	0	772	0	365	0	0	0	0	-	1,136	2,384
Still Gas	0	513	٥	0	0	0	0	0	0	513	0
Miscellaneous Products	2	24	-	-	0	0	0	0	(8)	27	-
Total	19,245	13,812	2,144	1,616	-5,258	-1,068	0	13,600	m	16,889	33,349

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Includes than 500 barrels.
 Eastinated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 10. PAD District V Supply and Disposition of Crude Oil and Petroleum Products, June 1983 (Thousands of Barrels)

			Su	Supply				Oiso	Disposition		
Commodity	Field Produc- tion	Refinery Produc- tion	Imports	Stock With- drawal (+) or Addi- tion (-)	Unac- counted For Crude Oil1	Net Receipts	Crude Losses	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (including lease condensate)	E 85,122	0	9,959	4,122	2,772	-20,137	4	68,177	3,526	1,895	88,201
Natural Gas Liquids and LRGs	1,158	1,536	520	-129	0	0	0	629	66	2,307	2,089
Citycened Ferodleum cases	619 539	1,536	520 0	125	00	00	00	419	66	2,032	2,033
Other Liquids	363	•	ć	•		•	•			1	000
Other Hydrocarbons and Alcohol	3 2	0 0	006	-1,442	0 (0 (9 (41.0	5 (£21	33,806
Unfinished Oils	0	0	326	-569	o c	00	- C	408 408 408	0	-1.478	25.406
Ariotics Coording District Components	0	0	294	-880	0	0	0	-1.639	0	1,353	8,340
Addition describe brending Components	0	0	0	9	0	0	0	9	0	0	54
Finished Petroleum Products	0	71,150	2,403	-706	0	3.477	.0	0	7.303	69.021	52,200
Finished Loaded Marie Contract	0	30,574	1,313	-978	0	1,985	0	0	19	32,876	18,553
Finished Unleaded Motor Constant	0	13,710	921	-933	0	1,168	0	0	19	14,847	8,917
Finished Aviation Gasoline	0 (16,864	392	45	0	817		0	0	18,028	9,636
Naphtha-Type Jet Filet	0 (293	0	45	0	0	0	0	0	248	588
Kerosene-Type Jet Firel	0 0	1,408	0	-54	0	216	0	0	0	1,570	1,739
Kerosene	-	6,969	122	552	0	270	0	0	53	7,891	5,141
Distillate Fuel Oil	0 0	1000	- 8	15	0	0	0	0	0	126	369
Residual Fuel Oil	0 0	9.341	8 82	120	0 0	533	0	٥	279	10,625	10,582
Naphtha and Other Oils for Petro, Feed.	0	772	0	83	oc	500 C	> c	o c	4,0,4	5.52	924,0
Unbringer	0	79	19	52	0	· c	· c	o C	· π	120	330
Waxee	0	438	(s)	182	0	9	0	0	48	532	1,190
Petroleum Caka	0	62	8	4	0	0	0	0	4	70	78
Asohalt and Boad Oil	0	3,534	0	309	0	0	0	0	2,743	1,100	2,035
Still Gas.	0 (2,482	=	-150	0	0	0	0	-	2,342	2,309
Miscellaneous Products	۰ ۵	3,906	0	0	0	0	0	0	0	3,906	0
	0	172	Φ	109	0	40	0	0	4	245	224
Total	86,633	72,686	13,832	-6,399	2.772	-16.660	٦	68 842	10 928	73.098	176.296
I losocompad for our and a sign of the second						2006	•				

Unaccounted for crude oil is a balancing item.
 Includes natural gasoline, isopentane, unfractionated stream, and plant condensate.
 Less than 500 barrels.
 Estimated.
 Note: Total may not equal sum of components due to independent rounding.
 Sources and estimation procedures: See Explanatory Notes on Data Collection and Estimation.

Table 11. Production of Crude Oil (including Lease Condensate) by PAD District and State, for the Most Currently Available Month, April 1983 (Thousands of Barrels)

Daily Average

Total

PAD District and State

-Continued

PAD Dietrict and State Total ADM Colorabor Total ADM Total ADM Colorabor Total ADM Tot			Daily		313 142	77
Average Worther Page E 2542 Page E 1,275 Pa	PAD District I Florida New York Pennsylvania		Average	***************************************	142	oc rr
Comparison Com	PAD District I Florida New York Pennsylvania)
1,557 59 Wyoring 2,527 59 Wyoring 2,527 59 2,527 59 2,527 59 5,527 59 5,527 59 5,527 59 5,527 59 5,527 59 5,527 59 5,527 5,529 5,529 5	Florida New York Pennsylvania				28	\$
Fig. 82 7 Applement 2 2.89 2 Adjustment 2 2.89 2.	New York	1,757	29		76	310
Fig. 20	Pennsylvania	E 68	2		349	28
Particle		E 352	12	District IV	525	564
Defirict California Calif	Virginia	FI 4	(s)		i	
Defrict	Most Missis	314		V 4-2-4-20 C4-0		
District E 2,427	VVGSI VII GIBIAL	, a	. c	PAD DISINCE V		
South Assists South Assist			3 7			ę
Authority State Authority	Total PAD District I	12,421	ō			8
1999 2,352 73 70dishment for Masks 2,322 1,320 1						,652
Arizone 2,382 78 74 74 74 74 74 74 74	PAD District II			***************************************		F
620 21 Arrone 63 22 California 63 24 California 63 25 California 64 20 California 650 18 22 67 20 California 67 18 California 67 18 California 67 18 California 67 18 California 68 20 18 690 18 10 19 Nonth 6.430 19 Nonth 6.430 10 10 Nonth 10 10 Nonth 6.20 10 10 Nonth 6.20 10 10 Nonth 6.20 10 10 Nonth 6.20 10 10 Nonth 1.33 10 10 Nonth 1.33 10 10 1	Ilinois	2,352	78			1,710
6.882 198 California 6.287 2.814 9.4 Erest Central 0.568 2.814 9.4 Erest Central 0.568 2.814 1.8 2.016 1.058 2.817 1.8 1.01 30.568 2.826 1.4 North Central 0.568 1.197 4.6 North Central 0.568 1.197 4.6 North Central 0.568 1.197 4.6 North Central 0.543 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 <td>Indiana</td> <td>620</td> <td>21</td> <td></td> <td></td> <td>(S</td>	Indiana	620	21			(S
Central Coastal Cest Central Coastal Cest Cest Central Coastal Cest Cest Cest Central Coastal Cest	1144 F	5 982	199	ALC: I		
Continued Cont	NATISAS	2000	000	•	7007	5
Continued Cont	Kentucky	3	1 8		202	2 6
South	Michigan	4.814	7 1		208	9
South Sout	Missouri	= 1/			5	-
1,157	Nebraska	230	138			214
13.678	North Dakota	4,269	142			1,110
1978 456 Adjustment for Arizona, California, and Nevada ² 550 5	Obio	E 1,197	40			2
Fig. 2 Total PAD District V E85,249	Oklabama	13.678	456		290	20
1,562	Oside Oskota	96	m	E 85		2842
1,753 1,019 1,01	Jana Danda	មួ	er,			
Tindudes the following offshore production (thousands of barrels): Tindudes the following t	- ennessee	25.	ď			203
1.561 52 1.561 52 1.561 52 1.561 52 1.561 52 1.561 52 1.561 52 1.561 52 1.562 1.563 1.56	Adjustment 2	1,1-1 10,1-10 10,1-10	3 5	***************************************		
1,561 52 52 52 52 52 52 52 52 52 52 52 52 52	Total PAD District II	00,00	2			
1.561 52 1.561 52 1.549 52 2.825 94 2 2.825 94 2 2.834 94 2 3.8502 94 2 3.8502 94 2 3.8502 94 2 4.8502 94 2 4.8502 94 2 5.662 1.263 5.662 1.263 6.175 2.06 6.175 2.06 7.01 7.01 7.02 2.23 7.03 2.44 7.03 2.45 7.04 95 7.08 7.01 7.08 7.01 7.08 7.01 7.08 7.01 7.09 7.01 7.00 7.01						
1,501 52 1,501 52 52 52 52 52 52 52 5	PAD District III		C	Alaska: 1,/9/;		
E 1,549	Alabama	L96, L	76	California: Federal- 2,536, State- 3,133;		
E 35,677 1,189 2,825 94 2,825 1,283 2,534 84 513 17 5,662 189 6,175 5,662 206 (s) 2,007 67 80 2,108 367 110 E 11,018 367 2,223 74 701 2,74 701 2,74 701 2,74 701 2,74 701 2,74 701 117 701 2,74 701 2,74 701 117 701 2,74 701 2,74 701 117 701 2,74 701 117 701 117 701 2,74 701 117 701		€ 1,549	25	Louisiana: Federal- E 23,578, State- 2,099;		
E 35,677 1,189 2,825 94 2 7 2,825 1,283 2,534 84 4,562 1,283 2,662 189 6,175 2,06 8,308 110 E 11,018 367 2,223 74 2,223 74 2,744 95 2,744 95 2,744 95 1,751 5,862 19,016 6534 1,751 5,813 1,751 5,813 1,751 142 1,751 142 1,751 142 1,751 142 1,751 142 1,751 142 1,751	Louisiana			Texas: Federal- E 1,798, State- 142;		
2,825 94 2 7 1,283 2,534 84 84 84 84 84 84 84 84 84 84 84 84 84	Gulf Coast	E 35,677	1,189	U.S. Total- 35,083.		
E 38,502 1,283 2,534 84 513 17 5,662 189 6,175 2,066 (a) 2,007 67 3,308 110 E 11,018 367 2,223 74 701 2,223 74 701 2,223 74 701 2,349 701 2,662 895 19,016 6527 1,751 955 1,751 58 1,751 58 1,751 58 1,751 58 1,751 58 1,751 58 1,751 58 1,751 58 1,751 74 1,271 75 1,272 74 1,273 74 1,273 74 1,273 74 1,274 95 1,751 58 1,751 58 1,751 74 1,27	Rest Of State	2,825	94			
513 17 51 17 506 (a) 6,175 200 (b) 701 23 308 110 E 11,018 367 2,223 74 2,223 74 3,497 117 2,774 92 2,862 634 18,819 627 18,819 627 18,819 627 18,819 627 18,819 627 18,819 627 18,819 627 18,819 627 14,251 142 4,261 1	Total Louisiana	E 38,502	1,283	level sums of the State data with the independently estimated		
513 17 5,662 189 6,175 2,006 6,175 2,006 7,3308 1110 E 11,018 367 2,223 7497 117 2,724 95 19,016 627 1,751 88 1,751 627 1,751 58 1,751 142 1,751 142 1,751 142 1,751 142 1,751 142	Micriciani	2,534	\$	U.S. and Alaskan figures shown in the Summary Statistics portion		
first 17 first 17 first 17 first 2,007 first 02 first 02 first 02 first 02 first 03 first 04 first 04 first 06 first 08 first 105 first 175 <td></td> <td></td> <td></td> <td>of this issue and with the PADD level figures published in a</td> <td></td> <td></td>				of this issue and with the PADD level figures published in a		
5,662 189 xico 6,175 206 xico 2,007 67 xi 01 3,308 110 xi 02 70 23 xi 03 10 23 xi 04 70 23 xi 05 2,223 74 xi 05 2,774 92 xi 07C 2,774 92 xi 08 2,862 95 xi 08 19,10 627 xi 08 1,751 58 xi 09 1,751 58 xi 09 1,751 58 xi 09 1,751 58 xi 09 2,513 2,513 xi 09 2,87 10 xi 09 2,513 2,513 xi 09 2,87 10 xi 09 2,513 2,513 xi 05 2,87 2,87 xi 05 2,87 2,87 xi 05 2,87 2,87 xi 10 2,87 2	New Mexico	210	17	or this issue and that at the Chate DAD District and		
100 100	1	200	180	provided touch will be probleted without adjustments in the		
xi(co b,175 200 xi 01 2,007 67 xi 02 3,308 110 xi 02 2,223 74 xi 04 701 2,223 xi 05 701 23 xi 05 2,437 117 xi 07B 2,487 117 xi 07B 2,862 95 xi 08 19,016 634 xi 08 19,016 634 xi 09 1,751 58 xi 10 3,156 105 xi 10 1,751 58 xi 10 2,513 xi 10 2,87 10 xi 10 2,513 xi 10 2,87 10 xi 10 2,513 2,513 xi 10 2,87 10	Southeastern	200,0	2 6	hallonal tevels will be published without adjustments at the		
## 101		6,1,5	SOO	Petroleum Supply Annual.		
1 10 10 10 10 10 10 10 10 10 10 10 10 10	Texas	1000	13	(s) Less than 500 parrels.		
## 102 10 10 10 10 10 10 10	TRRC District 01	2,002	õ	Sources; See Explanatory Notes on Data Conection and Countainon.		
### 03 ### 04 #### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ###### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ### 04 ########	District 02	4,500	25.7	c = csumaled.		
11 0.4 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.223 2.233	District	010,11	20,1			
1 05. excluding East Texas 3.497 2,774 2,774 2,862 2,076 2,774 2,862 2,106 2,106 2,107 2,174 2,862 2,107 2,174 2,107 2,1	District 04	2,223	4 6			
tr 06, excluding East Texas		10/	3 ;			
t 07B 2,774 2 406 2 408 2 408 2 408 2 408 2 408 2 408 2 408 2 408 3 156 2 4 10 2 4 261 2 4 261 2 4 261 2 4 261 2 4 261 2 4 261 2 5 2 2 4 261 2 5 2 393 2 5 2 6 2 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2		3,497	71.			
at 07C at 08 bt 08 at 08 at 10	District 07B	2,774	28.5			
tt 08	TRRC District 07C	2,862	6 6			
4,261	TRRC District 08	19,016	634			
ct 10 3,156 1,751 1,751 1,751 1,751 1,751 1,751 2,751 2,751 1,751	TRRC District 08A	18,819	627			
1,751 4,261 4,261 15,333 1,287	TRBC District 09	3,156	105			
4,261 E 75,393 -287 E 125,777	TBRC District 10	1,751	. 28			
E 75.393 -287 - 5.105.477		4.261	142			
	Total Tayas	E 75,393	2,513			
A 105, 201 F		-287	무			
		F 125 427	4 181			

Table 12. Natural Gas Processing Plant Production of Petroleum Products by PAD District,1June 1983 (Thousands of Barrels)

	ď	PAD District	=		ΔQ	PAD District	=				O C C C C C C C C C C C C C C C C C C C	111		-	-	240	
Commodity	East	Appala-	.I	Appala-	Ind.	Minn.	Okla.,		1	Texas	La C	inci in	:	Ī	_	Dist. V	United
		chian #1	Total	chian #2	II., Ky.	Wisc., Daks.	Kans., Mo.	Total	Inland	Gulf	Gulf	No. La., Ark.	New	Total		West	States
Natural Gas Liquids	467	399	866	٠	700	977	900	0	000	3	0	1		10000			000
Natural Gasoline and Isopentane	63	000	9 6	- (50.	1	0,220	0,0,0	800.8	4,824	9,808	SZC C	3,000	32,235	7,77	1,130	45,055
Unfractionated Stream	3 0	3 8	9 6	> •	3 (2	1,335	1,468	1,918	1,057	1,173	133	292	4,573	343	434	6,914
Plant Condensate	> C	\$ 0	¥.	- •	873	င္တ	-2,575	-1,611	9,943	-11,108	297	-180	1,798	750	945	105	223
Liquefied Petroleum Gases	Ş	0	9	٥	24	8	48	92	205	425	50	17	ιΩ	672	121	0	885
Ethane	4 5	332	736	0	947	257	7,420	8,624	6,943	12,450	5,318	559	970	26,240	812	619	37,031
Propane	, ,	89	323	0	434	0	1,082	1,516	8	3,031	1,784	56	88	5,723	32	0	7,587
Butane	200	21.	564	٥	356	9	2,882	3,398	2,438	3,958	1,773	158	425	8,752	510	355	13,279
Butane-Propane Mixtures	8	9	118	0	80	82	1,123	1,288	1,351	1,830	683	229	212	4,305	569	225	6,205
Ethane-Propage Mixtures	> 0	5 (0	0	0	0	10	은	25	38		5	0	5	ო	83	146
Sobutane	> L	<u>ب</u>	٠;	0	56	0	1,867	1,893	2,050	2,436	496	0	168	5,150	0	0	7,043
	2	9		0	21	12	456	519	258	1,157	581	133	4	2,206	S	10	2,771
Finished Petroleum Products	2	•	ì	•		1				**							
Finished Motor Gasoline	5 3	0	¥ ;	•	-	0	9	7	265	ន	0	9	ເດ	599	ക	0	369
Finished Leaded Motor Gasoline	\$ \$	5 C	አ :	0 0	0	0	0	0	0	0	0	0	0	0	7	0	19
Finished Unleaded Motor Gasoline	\$ \$	> 0	4 :)	0	0	0	0	0	0	0	0	0	0	-	0	45
Finished Aviation Gasoline	2 0	> 0	2 6	> (0	0	0	0	0	0	0	0	0	0	ဖ	0	16
Naphtha-Type Jet Fuel	0	> c	5 6	-	0	0	0	0	134	0	0	0	0	134	0	0	134
Kerosene-Type Jet Fuel		5 C	-	5 6	0 '	0	0	0	0	0	0	0	0	0	0	0	0
Kerosene	0	> 0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	5 C	> 0	0	0	0	0	0	0	0	0	0	-	ณ	ო	0	0	ო
Special Naphthas	-	> (0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous Products	o c	5 6	0 (o .	0	0	0	0	118	0	٥	o	0	118	0	0	118
	>	>	>	0	-	0	φ	~	<u></u>	83	0	2	ო	4	N	0	53
Total Production	521	300	000	•	5	,											
	;	3) j	-	1,905	440	6,234	8,580	19,274	2,847	6,808	535	3,070,5	32,534	2,230	1,158	45,422
# Total Property of the Proper																	

1 Production represents quantity of natural gas processing plant output less input to fractionating facilities. Source: See Explanatory Notes on Data Collection and Estimation.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, June 1983 (Thousands of Barrels, except where noted)

	á	DAD Dietrical	-		ď	PAD Dietrict II	= +				PAD District II	strict III			PAD	PAD	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind., III. Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Coast	No. La., Ark.	New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West Coast	United
Crude Oil (including lease condensate) 30,432	30,432	2,773	33,205	1,603	56,530	8,164	18,569	84,866	14,753	86,428	59,701	5,732	2,454	169,068 13,297	13,297	68,177	368,613
Natural Gas Liquids		•	,	•	Î	t	Š	6	40	•	700	u	ā	2 665	ď	OBC	5 366
Natural Gasoline and Isopentane	ه د	0 0	<u>6</u>	> c	2/5	ò C	9 0	ر در در		006,1	0 0 0	30	50	0	9 0	30	90
Untractionaled Stream	> C	> C	o ¢	-	122	1	7	133	0	597	φ	158	-	756	25	0	941
Hall Collidersate	8	თ	10,	. %	1,334	205	621	2,214	491	1,058	1,408	119	33	3,111	304	419	6,155
Ethane	0	0	0	0	0	0	0	0	0	0	٤٢	0	0	<u>ب</u>	0 ;	۰ ۵	<u>د</u> ز
Propane	0	0	0	o į	37	١٩	0 8	37	0 5	4 0	g ;	o t	00	2/75	0L 74	200	10g 4 664
Butane	0	on (ത (1,	1,113	ကို ဇ	5 6	90/1	402	200	130,	<u>.</u>	o o	169	2 6	, c	5 50
Butane-Propane Mixtures	0 0	0 0	00	o c	0 0	o c	0 0		n C	‡ °	- 0	0	0	30	. 0	i 0	90
Ethane-Propane Mixtures	8	0	88	37	. 1	. S	120	391	2	25	69	106	56	337	22	176	1,057
Other Liquids	0	c	á	c	1 30K	c	c	1.396	15	201	175	٥	φ	397	-	354	2,196
Unfinished Oils (net)	4,178	8	4,240	· 户	5.48 8	0	882	353	670	5,990	-242	190	104	6,712	-238	1,265	12,332
Motor Gasoline Blending Components (net)	278	-32	246	-12	115	-176	44	971	-1,100	1,180	835	۴	5	096	88	-1,639	929
Aviation Gasoline Blending Components (net)	0	0	0	0	-14	0	o _l	87	7	14	<u>8</u>	0	0	23	0	ဖ	4
Total Input to Refineries	35,050	2,812	37,862	1,655	59,307	8,259	22,018	91,239	15,863	97,454	62,393	6,248	2,732	184,690	184,690 13,600	68,842	396,233
Crude Oil Distillation Gross Input (daily average)	1,046 1,473 71.1	92 174 53.0	1,139 1,647 69.1	53 66 0.18	1,956 2,351 83.2	279 295 94.6	626 854 73.4	2,915 3,565 81.8	507 612 82.9	2,971 4,042 73.5	2,877 69.9	200 295 67.7	83 107 77.2	5,771 7,932 72.8	457 561 81.6	2,323 3,113 74.6	12,606 16,819 74.9
Crude Oil Qualities Sulfur Content, Weighted Average (percent) API Gravity, Weighted Average	.91 31.75	44.70	.87 32.48	.65 35.99	.88 35.95	1.69 30.96	.49 37.83	.87 35.89	.64 37.78	.82 35.18	77.	1.94	.78 38.07	.82 35.04	.91 35.07	.95 25.98	.86
Operable Capacity (daily average) ————Operating ldle	1,473 1,308 165	4 5 2 2 2	1,647 1,418 229	99 09 0	2,351 2,166 184	295 295 0	854 759 95	3,565 3,286 279	612 582 29	4,042 3,359 683	2,877 2,297 579	295 235 60	107 107 0	7,932 6,580 1,352	561 527 34	3,113 2,859 255	16,819 14,670 2,149

1 Represents gross input divided by operable capacity. Note: Total may not equal sum of components due to independent rounding. Source: See Explanatory Notes on Data Collection and Estimation.

Table 14. Refinery Production of Petroleum Products by PAD District, June 1983 (Thousands of Barrels)

	2	PAD Distric	1-		ď	PAD District					PAD Di	District III			PAD	PAD	
Commodity	Coast	chian #1	Total	Appala- chian #2	Ind.	Minn. Wisc.	Okla., Kans.,	Total	Texas	Texas		No. La.,	New	Total	Dist. IV Rocky	Dist. V West	United States
Liquefied Refinery Gases	1,337		-	3	1,666	187	356	2240	,	Coast	Coast	1			¥;	Coast	
For Other Uses				0	225	? C	8 8	0477	3 8	2,033	011,	2 6	2	5,512	<u>ئ</u>	1,536	0.00
Ethane	916	27	943	8	1,441	187	308	1967	3 5	200, 1	500,1	2 8	> 5	24.4	1 20	200	2, t
For Petrochemical Economics 112	·	0		0	0	0			9	517	200.	8 0	2 4	3,029	9 0	777	o c
For Other Uses	٠.	0	0	0	0	0	0	0	•	2 6	D (1)	o c	> c	2000	> c	ī	ž č
Propane		0			0	0	0	0	· C	325	1 1	o c	o c	7 66	> <) r	4 6
For Petrochemical Feedstock Use	44.		1,171		1,665	181	470	2,347	206	2.163	1.294	23.0	9 6	3 7 7 6	155	886	833
For Other Uses					225	0	48	273	32	1,025	195	30	9 0	1.252	9 0	180	2063
Вигале					1,440	181	422	2,074	174	1,138	1.099	53	9	2.524	155	202	6.272
For Petrochemical Feedstock Use					S)	9	-114	-103	\$	154	809	18	32	968	၅	565	1.614
For Other Uses	•	> c			0	٥	0	Φ	0	29	856	10	0	925	0	136	1.124
Butane-Propane Mixtures		> <			ro.	ω	-114	-103	-48	95	4	σ	35	43	0	459	490
For Petrochemical Feedstock Use	,	0 0			4	0	0	4	61	107	4	ณ	5	130	-50	98	192
For Other Uses		>	> 0	•	0	0	0	0	0	0	0	0	0	0	٥	0	
Isobutane for Petro. Feed. Use		o c	> c	> 0	4	0	0	4	~	107	4	8	15	130	2	98	192
Finished Motor Gasoline	17 930	1446		o 6	0 ;	0	0	0	0	12	0	0	0	72	7-	0	4,
Finished Leaded Motor Gasoline		- '- - '-		250	36,234	4,366	13,301	54,821	8,105	46,324	30,225	1,856	1,194	87,704	7,156		199,331
Finished Unleaded Motor Gasoline		2,5		5 5	16,617	2,279	8,295	27,611	4,282	20,653	13,713	968	753	40,369	4,425		93,763
Finished Aviation Gasoline	33	3		200	19,61	2,087	5,006	27,210	3,823	25,671	16,512	888	441	47,335	2,731		05,568
Naphtha-Type Jet Fuel	347	s Ę		> {	9	0	72	118	9	182	113	0	0	30-	53		774
Kerosene-Type Jet Fuel	984	÷ <	n o	ر ا	474	<u>6</u>	322	930	681	1,445	437	202	410	3,180	355	1,408	6,467
Kerosene		9 6		~ 0	3,000	394	564	4,025	800	5,462	5,877	ო	49	12,191	691		24,860
Distrilate Fuel Oil	7	885		200	7 7 7	O (တ ို မ	-36	ç;	1,173	918	4	46	2,139	7		2,186
Hesidual Fuel Oil		199		9 4	410,014	C 20	5,159	17,958	3,484	18,691	11,372	1,707	741	35,995	3,599		76,363
Naprima < 400 Deg. For Petro. Feed, Use		90		3 0	2 6	5 6	371	1,875	280	6,120	3,674	412	6	10,847	246		24,947
Other Oils > 400 Deg. For Petro, Feed. Use		0		ء د	200	> 0	94	374	501	2,654	2	39	0	3,204	0		4,035
Special Naphthas	12	27		> c	9 6	5 6	- !	149	4	4,052	2,797	0	Φ	6,993	0		7,802
Lubricants	248	357		> 0	3 4	>	185	388	5	951	38	148	0	1,150	4		1,660
Waxes	18	75		0		> (226	677	6	1,565	292	331	0	2,670	30		4,420
Feroleum Coke	1.089	0 0		5	7 0	o ;	8	9	7	128	115	48	0	298	თ		522
Marketable	330	. c		y c	7,50	315	929	3,171	287	2,559	1,838	129	12	4,825	263		12,901
catalyst	759	5		2	880'1	58	461	1,749	23	1,119	1.14	108	0	2.424	105		7.353
Asphalt and Road Oil	2000	ī ń		2 5	7,005	123	215	1,422	234	1,440	694	21	12	2,401	158		5,548
Still Gas	1,641	? ;		5 1	2,611	847	809	4,371	602	756	1.654	1.083	100	4.195	772		14.863
For Petrochemical Feedstock Use	8	2 0		<u>'</u>	2,996	288	832	4,173	461	4.546	2.331	220	57	7.615	513	3906	17.961
For Other Uses	7 7 7 2	,) د	N	0	0	N	2	268	2	C	C	294	20		510
Miscellaneous Products	704	2 9		27	2,994	588	832	4.171	456	4.278	2310	220	. [5	7 321	480		17 251
Fuel Use	5 5	7 8		(C)	8	ĸ	25	168	2	461	223	9	; =	807	5 6		30%
Non-Fuel Use	7-12	₹ 8		0 (-	0	15	16	0	6	187	0	· c	278	, er		9 6
	2	3		ო	82	52	දි	152	2	430	36	· የአ	0	283	, 5	3 4	1085
Total Production	36,898	2,774	39,672	1,621	62,517	8.539	22 785	05 462									
Processing (Saint.) or Loss (1)							20,13		20,0	100,122 E	500,503	0,310	3,780 7	189,626	13,812	72,686 4	411,258
(+)sort (-)	-1,848	8	-1,810	8	-3,210	-280	-767	4 223	Ą	-2 668	2 110	ğ	q	200	ç		t C
1 Documents that a feet in the											7,110	3	1	022,4	•	13,844	-15,025

1 Represents the arithmetic difference between input and output.
Note: See Explanatory Note on negative production.
Source: See Explanatory Notes on Data Collection and Estimation.

Table 15, Percent Refinery Yield of Petroleum Products by PAD District, June 1983

	ď	PAD District			ď	PAD District	=				PAD District II	rict III			PAD	PAD	
Commodity	East	Appala- chian	Total	Appala- chian	Ind.	Minn. Wisc.	Okla. Kans.,	Total	Texas	Texas Gulf	La Gulf	No. La.	New	Total	Dist. IV Rocky	Dist. V West	United States
	Coasi	Ħ		#5	III., Ny.	Daks.	Wo.		2	Coast	Coast	2			Mt.	Coast	
Finished Motor Gasoline2	50.5	41.2	49.8	54.4	58.8	52.4	55.1	57.2	49.6	44.7	45.9	25.8	39.9	44.8	50.7	44.9	48.3
Finished Aviation Gasoline3	۳,	oʻ,	-:	o.	٠,	o,	4.	ςį	۳.	κi	Ŋ	o,	o;	Ŋ	κį	₹.	κį
Liquefied Refinery Gases	3.9	0.1	3.6	6.1	3.0	23	1.8	5.6	0.1	3.3	3.6	1.2	4.3	ж т.	οί	2.2	2.8
Nanhtha-Type Jet Fuel	9.	1.7	1.6	1.	æί	1,3	1.7	1.1	4.4	1.6	۲.	3.5	16.0	. 8	2.7	5.0	1.7
Kerosene-Type Jet Fuel	28	0	2.6	4.	5.5	4.8	2.9	4.7	5.2	5.9	9.9	Ξ.	0; 0;	6.9	5.3	10.0	6.5
Kemsene	1.2	1.	ī	0	┯.	7	4	O,	o.	د .	5	Ψ.	1.8	1.2	o	ų	9.
Distillate Firel Oil	20.6	24.2	20.8	21.7	19.0	22.5	26.5	21.1	22.6	20.2	19.1	28.8	29.0	20.5	27.6	15.9	20.0
Residual Fuel Oil	7.2	5.6	7.0	5.9	22	2.3	1.9	5.5	3.8	9.9	6.2	7.0	2.4	6.2	6.	13.5	6.5
Nachtha < 400 Deg. F. Petro, Feed. Use	0.1	0	οj	0	κij	0	κί	4,	3.2	2.9	o.	۲.	0	1.8	0	κį	1.1
Other Oils > 400 Deg. F. Petro. Feed. Use	Q.	0	o.	0	ω	0	o.	9	οί	4.4	4.7	o,	0	4.0	o,	o;	5.0
Special Nanhthas	Q	1.0	7	0	4.	0	1.0	ιú	۳,	1.0	٣.	2.5	0	۲.	Q	-:	4.
Libricants	۲۰,	12.6	9	0	æ	0	1.2	œί	۳.	1.7	ر دن	5.6	0	ر دن	κi	φį	1.2
Waxes	•;	2.6	Ŋ	0	o,	0	νi	٠.	o.	۳.	Ŋ	œί	0	Ŋ	۳.	۲.	٦.
Petroleim Coke	33	7	3.0	4,	3.9	3.8	3.5	3.7	1.9	2.8	3.1	2.2	ιvi	2.7	5.0	T.	3.4
Ashbalt and Road Oil	8.7	1.6	8.1	6.5	5.0	10.4	3.1	5,1	3.9	œί	2.8	18.3	3.9	2.4	5.9	3.6	3.9
Still Gas	4.7	4,0	4.7	3,5	5.4	3.5	4.3	4.9	3.0	4.9	3.9	3.7	2.2	4.3	3.9	5.6	4.7
Miscellaneous Products	ιú	1.5	φį	6	લ	ന്	ωi	Ŋ	rζ	тú	4,	ω <u>΄</u>	0	ιú	κi	κį	4
Processing Gain(-) or Loss(+)4	-5.3	1.3	4 6	2.1	-5.7	4.6	-3.9	-5.0	ų	-2.9	-3.5	-1.0	<u>ر.</u> و:	-2.8	-1.6	-5.5	3.9

Based on crude oil input and net reruns of unfinished oils.
 Based on total finished motor gasoline output plus net output of motor gasoline blending components, minus input of natural gas plant liquids, other hydrocarbons and alcohol.
 Based on finished aviation gasoline output plus net output of aviation gasoline blending components.
 Represents the difference between Input and Production.
 Note: Totals may not equal sum of components due to independent rounding.
 Note: See Explanatory Note on negative production.
 Source: See Explanatory Notes on Data Collection and Estimation.

Table 16. Imports of Crude Oil and Petroleum Products by PAD District, June 1983 (Thousands of Barrels)

, incommon of		Petroleum	Petroleum Administration for Defense Districts	n for Defen	se Districts		
Simoning Control of the Control of t	-	=	=	2	>	Total	
Crude Oil (including lease condensate) 1.2	26,114	15,054	52,422	1,506	636'6	105,056	
Natural Gas Liquids	229	3.203	930	379	520	5 261	
Natural Gasoline and Isopentane	0	0	0	0	0	0	
Plant Condensate	Ф	0	0	94	0	94	
Ethane	229	3,203	930	285	520	5,167	
Propage	0	960	0	0	0	096	
Butane	186	477	0 (121	263	1,047	
Butane-Propane Mixtures	(s)	ž -	0 026	<u>\$</u> c	52	200, 400,	
Ethane-Propane Mixtures	o È	1,225	80	• •	0	1,225	
Other Liquids 1	2 167	401	2 080	147	050	962.0	
Unfinished Oils 1	1.955	228	7 784	147	926	ο, α 27.70	
Motor Gasoline Blending Components	212	263 263	197	e e	594	1.266	
Aviation Gasoline Blending Components	0	0	0	0	0	0	
Finished Petroleum Products	29.186	1646	3 125	4	2 403	36.473	
Finished Motor Gasoline	6 281	6	, ,	72	4,403	7 067	
Finished Leaded Motor Gasoline	2,659	240	0 0	7.7	5.00	288.5	
Finished Unleaded Motor Gasoline	3,621	5	0	-	392	4,065	
Neekte Ties of First	(s)	0	0	.0	0	(s)	
Kansana-Type Jet Fuel	0	0	0	0	0	0	
Ronded Airmst Engl	596	0	28	0	122	746	
Other	0	0	0	0	0	0	
Kerosene	296	o	58	0	122	746	
Distillate Firel Oil	7	0	0	0	0	7	
Bonded Ships Bunkers	4,513	009	35	31	82	5,257	
Other	0	0	0	0	0	0	
Residual Fuel Oil	4,513	909	32	3	82	5,257	
Bonded Ships Bunkers	15,706	581	2,135	6	840	20,270	
Other	0 000	0	0	0	0	0	
Naphtha < 400 Deg. for Petro, Feed 11se	16,706	581	2,135	o (840	20,270	
Other Oils > 400 Deg. for Petro Feed 11se	, ,	47	362	0	0	4	
Special Naphthas	ָּבְי	- (172	0	0	172	
Lubricants	0 0	100	356	0	19	930	
Waxes	232	ω.	36	0	(s)	276	
Asphalt and Road Oil	n (4		0	ထ	16	
Miscellaneous Products	905 905	o	0	0	Ξ'	378	
	N	n	ις ,	-	xo	Z	
Total Imports	57,697	20,395	62,457	2,144	13,832	156,525	

Crude oil and unfinished oils are reported by the PAD District in which they
are to be processed; all other products are reported by the PAD District of entry.
 Includes crude oil imported for storage in the Strategic Petroleum Reserve.
 Less than 500 barrels.
 Note: Total may not equal sum of components due to independent rounding.
 Sources: See Explanatory Notes on Data Collection and Estimation.

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1983 (Thousands of Barrels)

Arab OPEC	0 0 1	LPG	Unfin- ished Oils	Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
Arab OPEC							All PAD Districts	Districts						
	7.053	C	C	0		0	0	381	1.571	C	C	1 953	900 6	300
Saudi Arabia	4,704	0	0	0	0	0	0	0	528	0	15	544	5,248	175
United Arab Emirates	735	0	236	0	0	0	0	0	0	229	0	465	1,200	40
Subtotal Arab OPEC	12,492	0	236	0	0	0	0	381	2,100	229	15	2,961	15,453	515
Other OPEC														
Ecuador	2,092	0	0	0	0	0	0	0	310	0	0	310	2,402	8
Gabon	1,982	0	0	0	0	0	0	0	0	0	0	0	1,982	99
Indonesia	13,509	0	0	0	1 8	26	0	39	1,267	0	0	1,545	15,054	205
Iran	1,152	0	0 0	0 (0 0	0 0	0 0	0 6	9 0	0 0	0	00	1,152	88 6
Veneziela	2,7040	0	35.0	o c	1 100	5 C	> C	1 202	2516	0 0	o c	6 263	10,048	25. 7. 7. 7.
Subtotal Other OPEC	34,574	0	352	0	1,286	26	0	1,331	5,093	0	0	8,118	42,692	1,423
Other														
Angola	2,253	0	0	0	0	0	0	0	316	0	0	316	2,568	86
Australia	0	0	0	0	0	0	0	0	0	0	(s)	(s)	(s)	(s)
Bahamas	0	0	2,282	170	0	158	0	3	930	0	258	4,098	4,098	137
Bolivia	247	0	0	0	0	0	0	0	0	0	0	0	247	Φ
Brazil	526	0 (0 (0 (0	0 (0 (0	343	9e 9	0 0	380	909	200
Brune	(s)	0 00	þ	Ċ	2	5	ום	0 ;	9	5	5) C	(%)	(e) 2C y
Canada	8,50g	4,236	3/2	27.5	974	5	~ 0	1,421	018	500	5	8,697	202,7	3,0
Egypt	ğ Ç	00	> <	-	5 0	> c	0	٥ پ	0 0	o c) (§)	2	(5)	3c (S)
Malaysia	0	00	0	0	0	o c	0	0	4	0	2	5	4	<u>s</u>
Mexico	23,595	930	Φ	(s)	0	78	0	24	321	-	18	1,322	24,917	831
Netherlands	0	0	0	28	1,514	75	0	512	0	94	, S	2,279	2,279	92
Netherlands Antilles	0	0	1,183	٥	245	0	0	62	3,508	0 (261	5,426	5,426	181
Norway	2,097	o c	ے د	0 ;	0 ;	00	0 0	0 0	> c	-	> C	ο α 0 Δ	7,037	2 8
Pen	386	0	430	0	50	0	0	0	64.0	0	0	1,072	1,459	4
Puerto Rico	0	0	14	0	354	0	0	114	0	323	201	1,433	1,433	48
Romania	0	0	0	0	525	0	0	0	0	0	0	525	525	18
Spain	160	0	0	0	0	0	0	0	0	0	0	0	160	ις) (
Trinidad and Tobago	2,781	0	0	0	۱٥	0 (0 0	0 0	821	0 (۰ ۵	827	3,601	202
United Kingdom	12,281	- c	> 6	5 (9	<u>د</u> د	-	7	926	N C	- c	7 550	7,550	959
Viigiri istarius	905	0		0 0	4,0	g C	0 0) -	0	0	00	9	90	8
Other Western)	,)	>	>	1	,	,						
Hemisphere	290	0	(s)	0	86	0 [0 0	5 6	1,410	92 7	4 (1,604	1,894	8 8
Other Eastern Hemisphere	3,256	(s)	1,145	319	817	20	0 (5 .	1,155	4	77.	3,535	69,797	222
Subtotal Other	57,990	5,167	7,882	1,266	6,671	691	~	3,544	13,0/8	٠6/	1,384	40,390	98,380	3,279
Total Imports	105,056	5,167	8,470	1,266	7,957	746	7	5,257	20,270	930	1,399	51,469	156,525	5,218

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1983 (Thousands of Barrels)
-(continued)

Source	Crude Oil 1	. P.	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PADD	PAD District (
Arab OPEC														
Saudi Arabia		0 0	0 (0	0	0	0	381	1,571	0	0	1,953	5.627	188
United Arab Emirates	287	-	0 0	0 (0	0	0	0	0	0	0	0	1,145	38
Subtotal Arab OPEC	4,	00	00	9 0	00	0 0	0 0	0 264	0 .	528	00	229	516	17
Other Open					•	•	•	9	1,6,1	827	>	2,162	992',	243
Ecuador		•												
Gabon	0 206	00	0 0	0	0	0	٥	0	310	0	0	310	310	5
Indonesia	•	> c	0 (0 (0	0	0	0	0	0	0	0	205	7
Iran		O C	> c	0 0	0	0	0	0	481	0	0	481	3,376	113
Nigeria		o c	-	-	0 (0 (0	0	0	0	0	0	561	9
Venezuela		· c	> c	> c	0.00	0 (0	0	0	0	0	0	951	35
Subtotal Other OPEC	6,910	0	0	o 'C	9/0 070	0 0	0 0	1,292	3,139	0 (0	5,401	7,700	257
Cttor				•	5	>	>	762'1	3,930	-	0	6,192	13,103	437
Appropri														
Australia	<u> </u>	0	0	0	0	0	0	C	316	c	C	315	1612	3
Babamas	~ (0	0	0	0	0	0	· c	200	o c	o E	5	5.6	5
Brazil	2 6	0	0	0	0	158	0	3.	000) C	2	1138	1 118	25
Canada	222	0	0	0	0	0	0	0	343	c	0 0	343	270	5 5
Eavet	27.0	523	0	0	351	0	7	774	319	46	14.	1 867	2000	2 2
France	9 0	- c	0 0	Q i	0	0	0	0	0	0	0	0	946	32
Mexico	3 002	0 0	> 6	0 (φ.	0	0	(s)	0	0	(s)	(s)	(s)	(s)
Netherlands	100	0 0	-	0 ;	0	0	0	0	302	0		305	3,394	113
Netherlands Antilles	0	o c	0 4	£ .	1,514	75	0	512	0	0	52	2,170	2,170	72
Norway	1.590	0 0	y V	5 (0	0	0	229	3,508	0	261	4,952	4,952	165
Peru	0	o c	> <	-	0 0	0	0	0	0	Q	0	0	1,590	53
Puerto Rico	0) C	941	0 0	ָב ר נ	0 (0	0	422	0	0	422	422	14
Romania	0	0	, ,		400	0 (0	114	0	140	50	1,250	1,250	42
Spain	160	0	o c	٥ د	270	0 (0	0	0	0	0	525	525	18
Trinidad and Tobago	486	0	· c	o c	-	0 (0	0	0	0	0	ò	160	ιΩ
United Kingdom	4,037	0	0	,	۲ ۵	> 0	0	0	821	0		821	1,306	4
Virgin Islands	0	0	290	o c	1754	<u>-</u>	0 (٥	361	N.	<u>(s)</u>	438	4,475	149
Zaire	187	0	0	· c	<u>;</u>	500	5 (1,179	2,358	0	0	6,214	6,214	207
Other Western			1	>		0	0	0	0	0	0	0	187	ω
Other Eastern Hamilton	0	0	0	0	0	c	c	c	1 407	ô	•	1 000	100	,
Subtotal Other	1,652	(s)	0	169	737		o c	> <	7000	8	9	2,45	C 22,	4 5
	14,038	523	1,955	. 212	5,310	989	^	2,839	11.204	226	629	23.208	37,306	1.244
Total imports	25 44 4	Š	,											į
***************************************	20,114	RZZ	1,955	212	6,281	296	2	4,513	16,706	455	629	31,582	57,697	1,923
Arab OPEC							PAD District II	rict II						
Algeria Subtotal Arab OPEC	1,020	00	00	00	00	00	00	0 (0 (0	0	0	1,020	8
		•	,	>	>	>	0	0	0	0	0	0	1,020	34
See rootnotes at end of table.														

Table 17. Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1983 (Thousands of Barrels) (Continued).

(continued)														
Source	Crude Oil 1	LPG	Unfinished Oits	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel Oil	Resid. Fuel Oil	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
				:			PAD District II	strict (!						
Other OPEC	590	c	c	C	c	c	c	c	c	c	c	c	Š	É
Il Other	1,025	000	000	000	000	000	000	000	000	000	000	000	0.90 1,025 1,615	3 % %
Other Canada	6.031	3.202	228	263	291	c	c	900	£8.	Ş	7	7 230	11 370	978
France	0	0	0	30	0	0	00	3 0	30	30	(s)	656,8 (8)) (s) (s)	6/5 (s)
Mexico Notaes	3,932	0 0	00	00	00	00	0	00	0 0	φ.	0 (0 (3,932	131
Trinidad and Tobago	451	00	0	00	00	0 0	0	0	0 0	0	0	9	507 451	7.
United KingdomOther Western	1,014	-	0	0	0	0	0	0	0	0	(s)	-	1,015	34
Hemisphere	140	0	00	0 (00	00	0	0 (0 (0	0	0	140	ιΩ
Subtotal Other	12,420	3,203	228	33 °	291	0	9 0	009	581	92	74	(s) 5,340	345 17,760	12 592
Total Imports	15,054	3,203	228	263	291	0	0	900	581	100	74	5,340	20,395	980
							PAD District III	rict III						
Arab OPEC			,											
Algeria	2,359	00	00	00	00	00	0 0	0 0	200	00	οţ	0 77	2,359	92 15
United Arab Emirates	448	0	0	0	φ	0	0	0	30	0	20	, °	448	5.
Subtotal Arab OPEC	998'9	0	0	0	0	0	0	0	528	0	5	544	6,910	230
ည္	1,730	00	0 0	00	0 (0 (0 (0 (0 (0 (0	0	1,730	58
Indoposis	1,777	o c	o c	o c	0 0	> C	o c	> C	D 196	0 0	0 0	0 10	1,77	9
Iran	1,020,1	00	00	0	0	0	0	0	g 0	0	> 0	ဂ္ဂ ဝ	1,988	9 9
Nigeria	10,072	00	0 0	0	0 0	0 0	0 (00	0 (0 (0	0	10,072	336
Subtotal Other OPEC	16,695	0 0	352	00	00	00	00	00	3/8	00	0 0	730	2,222 17,790	593
Other Angola	955	c	c	c	c	c	c	c	c	c	c	c	3	5
Bahamas	0	0	2,282	170	0	0	0	0	·-	0	528	2,981	2,981	8 8
Bolivia	247	00	0	0 0	0 (0 (0 (0 (0 (٥	0		247	œ
Brunei) (8)	0	-	0	0	-	00	00	00	ဗ္က င	00	ဖွ င	36	- (S)
Canada	(s)	0	0	=	0	0	0	N	0	0	0	<u> </u>	13	(3)
France	0	0	0		0	0	0	0	0	0	(9)	(<u>s</u>)	<u>(s)</u>	:®
Mexico	16,570	086	00	(8)	00	8	00	ŧĩ c	<u>ტ</u> ი	- 3	←	994	17,565	585
Netherlands Antilles	0	0	8	<u> </u>	0	• •	0	0	• 0	g 0	0 (1)	230	230	et 00
Pen	386	0	430	0	0	0	0	0	220	0	0	650	1,037	35
Puerto Hico	0	0	0	0	0	0	0	0	0	183	0	183	183	9
See footnotes at end of table.								17,000						

Table 17, Imports of Crude Oil and Petroleum Products by Source and PAD District, June 1983 (Thousands of Barrels) (continued)

Source	Crude Oil 1	PG	Unfin- ished Oils	Gasoline Blending Compo- nents	Finished Motor Gasoline	Jet Fuel	Kero- sene	Distil. Fuel	Resid. Fuel	Special Naphthas	Other Prod- ucts 2	Total Prod- ucts	Total Petro- leum	Total (Daily Average)
							PAD Di	PAD District III						
Other Trinidad and Tobago	1 844	c	•											
United Kingdom	7,230	00	0	00	0 0	00	0 (0 0	0 (0	0	0	1,844	6
Virgin Islands		0	1,345	0	0	9 0	> C	5 C	0 0	0 0	®	(s)	7,230	241
Other Western	718		0	0	0	0	0	0	0	0	0	, 0	718	12 43
Hemisphere	150	0	(8)	0	c	c	c	4	Š	8	•			;
Subtotal Other	1,258	٥	1,145	0	0	0	0	<u>.</u> 0	3 6	8 4	4 %	1 575	2834	4 8
	006,82	930	5,431	197	0	28	0	32	864	356	559	8,397	37,757	1,259
Total Imports	52,422	930	5,784	197	0	28	0	32	2,135	356	575	10,035	62,457	2,082
							PAD District IV	strict IV						
Other														
Canada Subtotal Other	1,506	285 285	147	0 0	72	00	00	8 5	o (00	96 9	838	44.	7.7
Total Imports	1,506	285	147				•	5	מ מ	.	,	ŝ	7.	-
(1)				,	7,	5	0	က်	O	0	94	638	2,144	7
Acres on Acres							PAD District V	strict V						
United Arab Emirates	c	c	900	,	,									
Subtotal Arab OPEC	0	00	236	0	-	00	00	00	00	00	0 0	236	236	60 0
Other OPEC						,	•	•	•	>	>	200	230	0
Ecuador	362	0	0	0	c	c	c	(•	•	•	•	;	!
Vocando	8,991	0	0	0	, T	, S	> c	- g	3	5 (9 0	0 0	362	12
OPFC	0 26.0	0 6	0	0	131	90	0	ŋ -	0	0	0 0	13.00	9,08 13,13	525
	200	>	>	0	315	26	0	99	421	0	0	831	10,184	339
Canada	909	Š	•											
Malaysia	80	2 0	0 0	0 6	261	16	0	16	0	19	6	840	1,446	48
Mexico	0	c	> c	> 0	0 (0	0	0	4	0	0	4	4	(s)
Netherlands	0	0	0	o c	-	0 6	0	6	0	o	17	5 8	92	,-
Netherlands Antilles	0	0	0	0	246	o 0	0	0	٥	0	0	0	0	0
People's Hepublic of China	0	0	120	4	314	- C	-	0 0	0 0	0 0	0 0	245	245	∞ ε
Hemisphere	c	c	4	•		,	>	>	>	Þ	2	0/0	n 0	3
Other Eastern Hemisphere	0	0 0	> c	0 6	86	0 ;	0	0	0	0	٥	86	86	က
Subtotal Other	909	520	120	594	988 888	ဥ မွ	0 0	19	415	o 5	1 20	714	714	75
Total Imports	050	730	i c	į			•	?	?	?	ĵ	2,000	3,416	*
	2006	750	900	284	1,313	123	0	85	840	19	27	3,873	13,832	461
1 includes critical imported for	for charact													

I includes crude oil imported for storage in the Strategic Petroleum Reserve.
Includes aviation gasoline, waxes, asphalt, tubricants, natural gasoline, isopentane, plant condensate, naphthas less than 400 degrees F, other oils greater than 400 degrees F and miscellaneous products. (§) Less than 500 barrels or less than 500 barrels per day.

Note: Totals may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Table 18. Exports of Crude Oil and Petroleum Products by PAD District, June 1983 (Thousands of Barrels)

	٠	Petroleum A	Petroleum Administration for Defense Districts	n for Defens	se Districts	
Continuality	1	=	=	N	^	Total
Grude Oil (including lease condensate) 1	0	780	0	0	3,526	4,306
Liquefied Petroleum Gases	65	391	1,204	0	66	1,759
Frogane	27	(s) 157	(s) 539	0 0	o	(s) 762
	88	234	665	0	29	266
Butane-Propane Mixtures	0	0	0	0	0	0
Finished Motor Gasoline	, . .	0	627	0	19	647
Naphtha-Type Jet Fuel	0	0	(s)	o	0	9
Kerosene-Type Jet Fuel	0	0	0	0	2	23
Kerosene	-	0	57	0	0	28
Distillate Fuel Oil	(s)	,	923	0	279	1,203
Residual Fuel Oil	<u>(s)</u>	0	2,541	0	4,014	6,555
Naphtha < 400 Deg. for Petrochem. Feedstock	45	9	31	(s)	4	86
Other Oils > 400 Deg. for Petrochem. Feedstock	(8)	48	329	0	164	541
Special Naphthas	4	rΩ	22	0	ღ	37
Lubricants	91	1	343	8	48	205
Waxes	S	(s)	7	0	4	15
Petroleum Coke	246	293	4,150	0	2,743	7,432
Asphalt	27	0	(s)	-	γ	32
Miscellaneous Products	12	-	Ξ	(s)	4	28
Total Product Exports	498	765	10,247	က	7,402	18,914
Total Exports	498	1,546	10,247	ິຕ	10,928	23,221

Exports of crude oil are prohibited by law. However, some crude oil is exchanged with that of Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanatory Notes on Data Collection and Estimation.

Table 19. Exports of Crude Oil and Petroleum Products by Destination, June 1983 (Thousands of Barrels)

									•					
Destination	Crude Oil 1	LPG	Finished Motor Gasoline	Jet Fuel	Dist. Oil	Residual Fuel Oil	Special Naphthas	Lubri- cants	Waxes	Petro- leum Coke	Asphait	Other	Total	Total (Daily Average)
Australia	0 0	(S)		0	0	0	S	4	<u>(s)</u>	33	0		88	-
Bahamas	>	n 6	_	0 0	φ ç	313	0	22 0		242	0 0	~ 3	574	13
Bahrain	0	0		O	3 9	<u>.</u>		ν -	-	7	> c	<u> </u>	9 4	10
Belgium & Luxembourg	0	•		0	0	9 0	<u> </u>	- 0	9	4 5	9	- (و)	747	y 42
Brazil	0	8		0	20.	88		l ea	_	ę c	0	· (s)	275	9 6
Caneroon	0	0	0	0	0	0	0	(s)	0	8	0	0	8	,-
Chile	86	420		0	12	229	9	99		343	4	7	1,950	
China (Taiwan)	> c	<u>(e)</u>	0 (0 (<u>s</u>	0	<u>જ</u>	લ	(s)	0	(9)	~	4	©
Colombia	•	ē	0 6	> c	Ø	0 (0 (22 9		0 (0 (-	2 ((s)
Costa Rica	0	24	0	> c	> 0	-	5 7	<u> </u>	o (0 (5 6	- ,	- 8	- •
Denmark	0	(8)	0	> C	-	00	- c	2	S (S	ج د	-	- 9	8 8	- (*
Dominican Republic	0		0	0	o c	o c	9	£	∑ €	<u>,</u> c	, (c	28	8 8	o e
Ecuador	0	34	489	0	434	· c	<u> </u>	- ,-	D &	,	ì	2 3	8 8	3.0
Egypt	٥		0	0	0	0	(S)			o c	o C	<u>(</u>	} ^	(8)
El Salvador	0	(8)	0	0	0		(9)	٠ ٥	0	0	0	(S)	· m	(S)
	0	0	٥	0	0	0		જ	(2)	0	0	•	(s)	(S)
Front Docto In	0 ((8)	0	0	0	0	0	-	:	84	0	203	1,049	35
Ghana	0	0	0	0	4	279	0	(s)	0	0	(s)	0	322	-
Greece	0		0	0	0	0	0	0	0	0		0	0	0
Gentomala	0	<u>(s)</u>	0	0	0	0	0	2	0	0	0	(s)	ო	(s)
Grinos	0 0	20	0	0	0	0	0	က	(s)	0	<u>s</u>	(S)	\$	7
Tong its	9	0		0	0	0	0	-	:	0	0	0	-	(s)
Hong Kong	-	۰,	<u>ક</u>	0	0	0	(s)	က	(s)	0	0	-	4	(s)
India	0	- (0 (0	0	0	(s)	-	(s)	0	છ	(s)	N	<u>(8</u>
Indonesia	o c	0	50	0 0	φ.	φ.	0	(s)		0	0	φ.	۲.	(S)
Iran	0	(S)	0 0	-	> c	0	(s)	,- (0 (0 (0 0	- (n 3	Ø (
Israel	0	0	c	0	> c	0	0 0	0 3	0 0	0	> c	5	(<u>s</u>)	2 9
Italy	0	· -	0 0	o c	•	0	> •	© ((8)	> c	(8)	~ 6	(9)
lvory Coast	0	0	0	0	o c	230	4 0	<u> </u>	2	2	9 6	ţ <	5 66	ò "
Jamaica	0	4	0	0	0	3	•	(e)	9	o c	,	e E	3 2	· -
Japan	0	(s)	(s)	0	8	776) (8)	9 5	_	1 825		17	2,660	- 68
Vocat Danielle	0	-	0	(s)	0	0		-	0	0	્ર	0	8	(s)
Kingit	0 (,	0	0	0	653		N	(S)	55	(S)		712	24
Lebanon	> c	0	0 (0 (0	0	(s)	~	0	0	0	<u>(8</u>	64	(s)
Liberia		િ ()	0	> (-	0	0	-	0	0	0	(s)	N	(s)
Malaysia	c	9	0	5 6	> 0	135	0	<u>s</u>	<u>છ</u>	0	0	0	3 3	n,
Mexico	0	838	, 0	2 2	9	0	0 0	2 5	۰ ۰	9 2		(s)	D 0	- 6
Netherlands	0	-	10		5	> C	7 (E	4	8 8	<u> </u>	4 4	000,	e e
Netherlands Antilles	0	0	0	0	197	337		- (9	<u> </u>	3, 9	ر ق		700,	5 F
New Zealand	0	0	0	0	0	0	<u> </u>	e e	£ 6	72	0	C S	8 8	e w
Niceria Niceria	0 ((s)	0	0	0	0	, ე	· •	0	0	0	(S)	S.	(s)
Noova	-	0 (0	0	0	0	0	က	0	0	0	0	ന	<u>(S</u>
Pacific Trust Terr	0	-	5 0	0 (0 (0	0	(s)	(s)	119	0	(s)	120	4
Panama	0 0	<u>ئ</u> د	> c	> c	0 0	0	0	<u>(s)</u>	0	0	0	_	(S)	(s)
Peru	0	3 63	138	-	> c	419 6	જ .	α,	<u>ه</u> (0 0	<u>(s)</u>	Ժ [459	ភ
Philippines	0	0	9 0	• =	o c	, t	> 3	- ,	<u> </u>	5 C	> <	/C	4 5	1 01
Puerto Rico	1,698	32	(s)	0	0	S S	D Ø	- ‡	ī.	o c	o c	3 0	7 7	~ a
Rep. of South Africa	0	(S)	°	0	0	0	D 9	: 5	- §	9, 6	ි ග	o +-	108	કે 4
				1		,	2	?	2	,	Ē	•	?	F

Table 19. Exports of Crude Oil and Petroleum Products by Destination, June 1983 (Thousands of Barrels)

Conmined														
			Finished	ā	Dist.	Residual	Special	- th		Petro-				Total
Destination	Crude Oil 1	LPG	Motor Gasoline	Fuel	Puel Oi	Fuei	Naphthas	cants	Waxes	Coke	Asphalt	Other	Total	(Daily Average)
Saudi Arabia	0	1	0	٥	٥	٥	٥	18	(s)	4	0	ო	53	-
Singapore	0	7	0	0	0	1,522	(s)	-	(s)	0	(s)	-	1,525	51
Spain	0	37	Q	٥	0	13	0	4	(s)	510	0		565	19
Surinam	0	0	0	0	0	0	(s)	(s)	0	2	0	(s)	10	(s)
Sweden	0	<u>(s)</u>	0	0	0	0	0	-	<u>(s)</u>	0	0	•	က	(S)
Switzerland	0	T	0	0	0	0			(S)	28	0	ဗ	62	2
hailand	Ö	0	0	0	O	0		12	S	0	0	100	112	4
Iniidad and Tobago	•	0	0	0	0	0		4	0	***	0	(s)	ın	(s)
Turkey	0	0	0	0	0	0		(s)	0	0	0	0	(જ	(S)
Jnited Arab Emirates	0	(s)	0	0	0	0	<u>(S</u>	-	0	0	(s)	(2)	-	(S)
Jnited Kingdom	0		0	0	189	0		-	(s)	(s)	(s)	က	194	ဖ
J.S.S.R.	0	0	0	0	0	0	0	98	0	78	0	ß	119	4
Jruguay	0	0	0	0	0	0	0	(s)	Ф	0	0	(s)	(s)	(s)
/enezuela	0	0	0	0	0	0	0	-	(s)	47	(s)	(s)	48	7
/irgin Islands	1,257	98	0	0	٥	634	0	(8)	0	0	0	0	1,977	99
Nest Germany	0		0	0	0	0	4	67	-	0	(s)	(s)	7	(s)
rugoslavia	0	0	0	0	0	0	0	<u>©</u>	0	0	0	0	(s)	(s)
Other	571	42	0	(s)	•	782	0	9	છ	83	(s)	2	1,497	20
Total	4,306	1,759	647	74	1,203	6,555		205	tō.	7,432	32	712	23,221	774

1 Exports of crude oil are prohibited by law. However, some crude oil is exchanged with that of Canada on a barrel for barrel basis, and crude oil is shipped to U.S. Territories (especially Puerto Rico and the Virgin Islands) to be refined there. The Statistical Tracking Systems count these exchanges and shipments as imports and exports.

(s) Less than 500 barrels or less than 500 barrels per day.

Note: Total may not equal sum of components due to independent rounding.

Source: See Explanatory Notes on Data Collection and Estimation.

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Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, June 1983 (Thousands of Barrels)

	PA	PAD District			PAI	PAD Dietrict II	=				PAD District III	trict III			DAD	PAD	
Commodity	East	Appala- chian #1	Total	Appala- chian #2	Ind. II. Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Goast	:	New Mexico	Total	Dist. IV Rocky Mt.	Dist. V West	United
Crude Oil (incl. lease condensate) Refinery Tank Farms and Pipelines Leases Strategic Petroleum Reserve1 Alaskan In-Transit Total	11111	11111	15.072 356 56 5 0 0 0	11111		111111	11111	13,817 62,964 1,649 0 0 78,430	111111		11111	11111	11111	49,135 90,059 17,128 332,484 0 0	2,410 11,009 1,393 0 0 14,812	25,202 32,871 1,712 0 28,416 88,201	105,636 197,859 21,938 332,484 28,416 686,333
Total Stocks, All Oils (excl. Crude Oil) Refinery	37,336	3,062	40,398 99,922 27,231 157 167,708	1,076	214	6,162 	15,711	64,328 85,618 32,615 1,423 183,984	8,988 	80,763 	43,578	4,249 	1,451	139,029 82,889 38,078 4,605 264,601	13,536 2,171 2,612 218 218 18,537	62,894 21,137 3,952 112 88,095	320,185 291,737 104,488 6,515 722,925
Natural Gasoline and Isopentane Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	 	۱۱۳۱	12 0 13 84	°II°I	ε I I I	8 1 1 8 1	138 153	189 1,235 505 181 2,110	340	574 	135	1 1 1	4 5	805 2,125 888 725 4,543	5 17 32 55	50 c c 03	1,048 3,378 1,415 971 6,812
Unfractionated Stream Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	111	0 -	000	١١٠١	1 1 9	0 %	545	0 955 103 650 1,708	0 12	0	01181		0 9	0 1,270 2,237 1,693 5,200	0 466 32 498	00000	2,225 2,806 2,376 7,407
Plant Condensate Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total		°II°I	00000	°II°I	 n +	01141	0 0	0 0 0 V 5	4 8	8 %	0 6	53 1 1 50 1	°II°I	126 1 207 70 404	00044	00000	131 1 207 101 440
Liquefied Petroleum Gases Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	1 88	81181	470 1,426 2,846 128 4,870	257 	1,530	. 115	596	2,498 26,018 6,644 584 35,744	1,105	4,677	2,163 	25 1 49	22 24 1	7,063 50,761 3,214 1,917 62,955	291 57 46 123 517	594 1,347 0 92 2,033	10,916 79,609 12,750 2,844 106,119
Ethane Refinery Bulk Terminal	0 1	0	000	۱۱۰	- 11	١١	0	7 951 1,258	°11	1,124	0	. 11	١١	1,124 2,269 274	000	000	1,131 3,220 1,532
See footnotes at end of table.							ĺ										

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, June 1983 (Thousands of Barrels) (continued)

	PA	PAD District	_		PA	PAD District II	=				PAD Dietrict III	etrict III				4	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Coast		New Mexico	Total	PAD Dist. IV Rocky Mt.	West V	United States
Ethane Natural Gas Processing Plant Total	0	٥١	00	°ı	8 1	٥١	± 1	41 2,257	<u>-</u> 1	- t	٥١	0	١٥	3,674		0	49 5,932
Propane for Petrochemical Feedstock Use Refinery Bulk Terminal Pipeline Pipeline Natural Gas Processing Plant Total	94 14 0	01101	40004	01101	117	01101	6 0 	117 0 0 0 117	- °		81101	0 0	01101	40004	00000	00000	225 0 0 225
Propane For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	371	- 1 %	378 1,293 2,729 85 85 4,485	"II°I	1,030	1 4 1 1 23	201	1,254 16,220 3,349 262 21,085	21181	1,292	897 	 6	4 8	2,230 23,078 1,212 954 27,474	119 56 11 83 269	109 464 0 70 643	4,090 41,111 7,301 1,454 53,956
Butane For Petro. Feed Use Refinery		° °	00000	°II°I	0 0	4 1 °	•	40004	° °		01101		°II°I	20008	00000	N O O O N	26 0 0 0 0 26 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Butane For Other Uses Reifnery Bulk Terminal Pipeline Natural Gas Processing Plant Total	6 1 1 1 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	5 1 ₀	78 133 117 42 370	8 II. o I	210	8 °	245 	711 3,238 933 223 5,105	34 15	1,367	587 	. 8	5 18	2,015 10,977 375 518 13,885	133 0 35 168	281 640 0 15 936	3,218 14,988 1,425 833 20,464
Butane-Propane Mixtures For Petro. Feed Use Refinery Bulk Terminal Fipeline Natural Gas Processing Plant 1 otal 1	l Use	°II°I	00000	°II°I		°11°1	° °	00000	°II°I	0 0	°11°1		01101	00000	00000	00000	00000
Butane-Propane Mixtures For Other Uses Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	0 0	° °	00000	° °	m 0	01101	1 1	3 57 57 1 1 288	L 4		[∞] ! [°]	111	~ °	25 61 9 696	400000	167 94 0 5 266	199 382 658 17 1,256
See footnotes at end of table.		Table Village															

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, June 1983 (Thousands of Barrels) (continued)

	A	PAD District			PA	PAD District II	=				PAD District II	rict III			l	PAD	
Commodity	East Coast	Appata- chian #1	Total	Appala- chian #2	Ind., III., Ky.	Minn. Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast	No. La., Ark.	New Mexico	Total P	Dist. IV Rocky Mt.	Dist. V West	United
Ethane-Propane Mixtures Refinery Bulk Terminal Pipeline Natural Gas Processing Plant	0 0	0110	0000	0110	11	0110	۵ % ۱۱	3,809 566 29	0 1 1 252	0 0	0110	。 。 	٥١١٥	0 8,194 648 254	00 %	0000	0 12,003 1,249 283
Isobutane Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total		1 °11°1	0 000	89 10	1 1 1 1	1 21101	1 55 1 1	4,404 402 1,573 481 2,484	20 20	1 854	1 1 285	; %	1 411,01	9,096 1,555 6,182 104 175 8,016	38 2 0 1 35	35 149 0 186	13,535 2,027 7,905 585 208 10,725
Other Hydrocarbons and Alcohol Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	98 1	° °	မွ ၀၀၀မွ	01101	11/1	° °		117	-1101	97	⁸ ⁰	0 0	01101	000000000000000000000000000000000000000	-000-	00000	260 0 0 260
Unfinished Oils Refinery Naphthas and Lighter Kerosene and Lighter Gas Oils Heavy Gas Oils Residuum Total	2,905 1,671 6,026 1,893 12,495	272 30 190 333 825	3,177 1,701 6,216 2,226 13,320	40 108 0 0 148	2,703 2,426 3,832 3,557	161 4 216 36 417	1,467 1,259 1,095 1,124 4,945	4,371 3,689 5,251 4,717 18,028	617 516 957 567 2,657	8,180 6,161 11,181 5,663 31,185	5,639 1,371 6,362 2,655 16,027	135 28 176 38 377	101 42 115 0 258	14,672 8,118 18,791 8,923 50,504	489 662 1,041 668 2,860	4,601 3,530 12,059 5,216 25,406	27,310 17,700 43,358 21,750
Motor Gasoline Blending Components Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	4,265	150	4,415 100 0 0 4,515	81101	5,496	679	1,582	7,792 273 194 0 8,259	1,459	8,458 	66.39 0	1 1 1 1	55 1' ₀	16,569 162 27 0 16,758	2,046 1 0 0 2,047	8,116 224 0 0 8,340	38,938 760 221 0 39,919
Aviation Gasoline Blending Components Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total		° °	00000	°¦ °	167	°II°I	51	218 0 0 218	8 °	0 0 	51101	0 0	01101	195 0 0 0 195	00000	4,0004	467
Total Finished Motor Gasoline Refinery Bulk Terminal Pipeline	4,507	523	4,730 36,770 15,250	86	6,101	1,154	3,016	10,369 29,119 15,952	1,556	9,588	4,728	625	214	16,711 12,984 18,200	2,334 1,206 1,118	6,690 9,612 2,251	40,834 89,691 52,771

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, June 1983 (Thousands of Barrels) (continued)

The state of the s	. PA	· PAD District			PA	PAD District II	=				III tointaid CAG	thirt III			ļ-	0	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind.,	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	La. Gulf Coast		New Mexico	Total	PAD Dist IV Rocky Mt.	Dist. V West	United States
Total Finished Motor Gasoline Natural Gas Processing Plant	15.	° 1	15 56,765	°I	0	°I	0 	0 55,440	۱	0.	0 1	0 1	٥١	0 47,895	6 4,664	0	21 183,317
Finished Leaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	2,023	£ 0	2,136 18,600 9,236 10 29,982	& II ol	2,817	3 1 1 0 1	1.840	5,486 14,987 8,946 0 29,419	815	4,819	2,169 0	400 n	156 0	8,359 6,808 8,953 0 24,120	1,378 802 779 5 2,964	2,889 4,867 1,161 0 8,917	20,248 46,064 29,075 15 95,402
Finished Unleaded Motor Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	2484 1 1 1 5	511 ₀ 1	. 2,594 18,170 6,014 5 26,783	8 0	3,284	378	1.176	4,883 14,132 7,006 0 26,021	½ 1 1 0 1	4,769	2,559	225	881101	8,352 6,176 9,247 0 23,775	956 404 339 1,700	3,801 4,745 1,090 0 9,636	20,586 43,627 23,696 6 87,915
Finished Aviation Gasoline Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total		° °	550 0 0 0 40	0110	8 0	°II°I	99 	124 321 130 0 575	81181	318	<u> </u>	0 0	01101	484 94 45 34 657	35 0 0 54	218 370 0 588	915 1,354 175 34 2,478
Naphtha-Type Jet Fuel Refinery Bulk Terminal Pipeline	25 	8	270 16 150 436	° 1 1	7.4	8	216 	825 590 224 1,639	255	6,0,1	1 1 435	178	128	2,006 229 490 2,725	226 3 138 367	965 461 313 1,739	4,292 1,299 1,315 6,906
Kerosene-Type Jet Fuel Refinery	1,130	°	1,130 4,325 2,852 8,307	<u>د</u> ا ا	1,619	8 1	134	1,830 4,445 2,173 8,448	1113	2,955	2,082	თ 	8	5,436 2,079 4,209 11,724	337 218 199 754	2,998 1,876 267 5,141	11,731 12,943 9,700 34,374
Kerosene Refinery	437	£ 0	518 2,859 184 0 3,561	01101	64 1 0	68 1°	156	604 1,021 167 0 1,792	1 1 1 23	1 0	427 	<u> </u>	86 +	1,334 631 331 3 2,299	4 88 0 0 62	282 87 0 0 369	2,742 4,621 682 3 8,048
Distillate Fuel Oils Refinery	6,301	ଞ୍ଚ । ।	6,662 28,520 5,949	11 &	1 1 4,853	1,061	2,441	8,405 14,659 6,499	56 1 1	8,873	4,990	758	11 23	15,825 6,277 7,626	1,600 573 628	5,015 4,465 1,102	37,507 54,494 21,804

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le 20. Stocks of Crude Oil and Petroleum Products By PAD District, June 1983 (Thousands of Barrels) (continued)

	PAG	PAD District 1			PAI	PAD District II	=				PAD District III	trict !!!			PAD	PAD	
Commodity	East Coast	Appala- chian #1	Total	Appala- chian #2	Ind., Ill., Ky.	Minn., Wisc., Daks.	Okla., Kans., Mo.	Total	Texas	Texas Gulf Coast	Gulf Coast	No. La.,	New Mexico	Total	 	Dist. V West Coast	United
Distillate Fuel Oils Natural Gas Processing PlantTotal	0	٥١	41,131	٥١	0	٥١	0	29,563	۱°	0 	۱	о 	0	29,728	2,801	0 10,582	0 113,805
Residual Fuel Oils Refinery Bulk Terminal Pipeline	3,804	85	3,940 20,028 0 23,968	2	1,849	11 1 13	147	2,203 1,538 0 3,741	111 203	4,638	2,733	1 1 1 1	8	7,809 5,311 413 13,533	437 0 0 437	6,687 1,705 14 8,406	21,076 28,582 427 50,085
Naphtha < 400 Deg. Petro. Feedstock Refinery	29	00	8 8	00	163 163	00	65	228	142 142	721 721	466 466	88	00	1,362 1,362	00	250 250	1,869
Other Oils > 400 Deg. Petro. Feedstock Refinery	4 4	00	4 4	00	26 26	00		27	242 242	1,179	236 236	00	00	1,657	ოო	406 406	2,097
Special Naphthas Refinery	9 0	4101	67 676 0 743	0101	148	0101	166	314 414 0 728	22 1	1,083	<u>6</u> 1 0 1	0 1	0 0	1,306 14 111 1,431	រិ	284 46 0 330	1,986 1,150 111 3,247
Lubricants Refinery Bulk Terminal	845	934	1,779 1,330 3,109	°	701	١١	216	917 1,138 2,055	43	3,498	874	567	° 1 1	4,982 326 5,308	5 2 5	581 609 1,190	8,329 3,405 11,734
Waxes Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	1	1 1 1 0 1	162 0 0 162	°II°I	- PS	°II°I	0 0	92 0 0 0 8	98 0	215	\$ 11° 1	,	° 1 ° 1	479 0 0 0 479	40004	78 0 0 87	815 0 0 0 815
Petroleum Coke Refinery Total	767	00	767 767	00	776 776	22.1	601	1,598 1,598	7 7	45 45	602	143	00	797 797	952 952	2,035	6,149 6,149
Asphalt and Road Oil Refinery Bulk Terminal	1,682	8	1,767 3,273 5,040	392	4,107	2,208	1,160	7,867 3,840 11,707	642	557	F 1 1	889 	245	3,107 524 3,631	2,316 68 2,384	2,024 285 2,309	17,081 7,990 25,071
Miscellaneous Products Refinery Bulk Terminal Pipeline Natural Gas Processing Plant Total	226	8 1 °	260 32 0 0 292	"1101	86 1 1	° °		24 24 155	88 84	1 1 3 3 3 3 3 3 3 3	81101	1 1	01101	372 101 191 52 716	000	174 50 0 0 224	884 235 215 54 1,388
Total Stocks, All Oils	1	1	183,792	I	1	I	I	262,414	I	1	1	I	1	753,407 33,349 176,296 1,409,258	33,349	176,296	1,409,258
 Includes 33.879 thousands of barrels of domestic crude oil. Sources: See Explanatory Notes on Data Collection and Estimation. Not Applicable. 	of domestic Collection	and Est	if. imation.														

Table 21. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge Between PAD Districts, June 1983 (Thousands of Barrels)

III III III III	> 0								2	_	-	Troill 1V to			Light v	2
8,380 28	0		=		> ≥		_	=	≥	>	=	=	>	-	=	=
0 8,380 0		0	0	0	0	0	423	1,658	0	٥	0	0	0	3,672	0	16,465
ne0	39	0	2,399 5.		896			27,819	0	2,115	1,497	362	1.177	0	0	110
Infractionated Stream 0	0	•			0			607	0	O	LC.	0	0	0	0	0
	0				0			1.126	0	0	526	362	0	0	0	0
	0				0			8	0	0	0	0	0	0	0	0
Liquefied Petroleum Gases	0	0	335 1,	1,803	35	0	1,00,1	7,101	0	0	0	0	0	0	0	0
Unfinished Oils 10 7.	74				0			0	0	0	0	0	0	0	0	Q
Motor Gasoline Blending Components	0				0			1,000	0	0	0	0	0	0	0	0
Aviation Gasoline Blending Components 0	٥				0			0	٥	0	0	0	0	٥	0	0
Finished Motor Gasoline	0	_			,137			10,263	0	1,118	561	0	867	0	0	0
	0				678		21,225	5,679	0	904	368	0	564	0	0	0
Finished Unleaded Motor Gasoline	0				459			4,584	0	514	193	0	303	0	0	0
	0				27			182	0	0	0	0	0	0	0	٥
Naphtha-Type Jet Fuel	0				0			104	0	216	87	٥	0	0	0	0
Kerosene-Type Jet Fuel	0				520			1,635	0	137	0	0	133	0	0	0
Kerosene	0				0			56	0	0	0	0	0	0	0	0
Distillate Fuel Oil	0				249			4,105	0	356	318	0	177	0	0	0
	8				0			349	0	258	0	0	0	0	0	٥
Naphtha and Other Oils for Petro.																
Feedstock13	0		o	0	0	0	32	33	0	0	0	0	0	0	0	o
0	0		16	0	0	0	275	191	0	0	0	0	0	0	0	0
6	78		36	21	0	٥	411	301	0	30	0	0	0	٥	0	20
0	0		0	0	0	0	0	0	0	0	0	0	0	Q	0	٥
0	0		143	0	0	0	172	745	0	0	0	0	0	0	0	0
54	37		125	131	0	0	174	49	0	o	0	0	0	0	0	40
Total All Products	99	0	2,399 5,	5,520 1	996	295 7	78,202	29,477	0	2,115	1,497	362	1,177	3,672	0	16,575

Table 22. Movements of Petroleum Products by Pipeline between PAD Districts, June 1983 (Thousands of Barrels)

Americality	From 1 to	to	_	From II to			From III to	III to		-	From IV to		From V to	5
COLUMNOSIS	=	=	_	=	2		=	≥	>	=	111	^	=	≥
Natural Gasoline and Isopentane	0	0	0	129	0	0	607	0	0	ιO	0	٥	0	O
Unfractionated Stream	0	0	0	442	0	¢	1,126	0	0	526	362	0	0	0
Plant Condensate	٥	٥	•	0	0	0	N	¢	O	ò	0	٥	0	0
Liquefied Petroleum Gases	0	0	335	1,803	35	847	7,101	0	0	0	0	0	0	٥
Motor Gasoline Blending Components	0	0	0	0	0	0	1,000	0	0	0	0	٥	0	0
Aviation Gasoline Blending Components		0	0	0	0	0	0	0	0	0			0	0
Finished Motor Gasoline	4,425	0	1,207	2,033	1,137	37,396	9,223		898	561			0	0
Finished Leaded Motor Gasoline		0	523	1,163	678	16,830	5,138		479	368			0	0
Finished Unleaded Motor Gasoline		0	684	870	459	20,566	4,085		419	193			0	0
Finished Aviation Gasoline		0	0	0	27	43	157		0	٥			0	0
	0	0	0	129	0	304	104	,	216	87			0	0
Kerosene-Type Jet Fuel	72	0	126	123	520	5,036	1,429		137	٥			0	0
Kerosene	14	0	0	0	0	262	26		0	0			0	0
Distillate Fuel Oil	1,496	0	107	687	249	12,825	3,520		356	318			0	0
Residual Fuel Oil	0	0	0	0	0	0	0		0	0			0	0
Miscellaneous Products	0	0	125	0	0	0	0		0	0			0	0
Total	6,025	0	1,900	5,346	1,968	56,713	24,295		1,607	1,497	362	1,177	0	0

Source: See Explanatory Notes on Data Collection and Estimation.

Table 23. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, June 1983 (Thousands of Barrels)

		From I to			From II to				From III to	₽ ₽			F	From V to	
Commodity	=	=	>	_	=	>	_	New Eng	Atl Sent	Low	=	>		=	=
Crude Oil	0	0	0	0	0	0	423	0	423	0	1,658	0	3,672	Ö	16,465
Petroleum Products	2,355	289	0	499	174	295	21.066	1.177	3,919	15,970	3,524	508	0	0	110
Liquefied Petroleum Gases	0	0	0	0	0	0	154	0	0	154	0	0	۰,	0 (0 0
Unfinished Oils	5	74	0	0	0	0	1,153	0	1,153	0	0	0	0 (0 (0 0
Motor Gasoline Blending Components	0	0	0	0	0	Φ	79	0	0	79	0	φ	0	•	0 (
Finished Motor Gasoline	1,631	0	0	242	0	0	10,523	532	494	9,497	1,040	220	0	0	0 (
Finished Aviation Gasoline	0	0	0	0	22	0	113	Ŋ	27	81	32	0	0	0	0
Naphtha-Type Jet Fuel	66	0	0	0	0	0	197	σο	73	116	0	0	0	0	0
Kerosene-Type Jet Fuel	73	0	0	ထ	0	0	2.840	74	523	2,243	506	0	0	0	0
Kerosene	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Distillate Fuel Oil	466	0	0	45	0	0	2.579	319	234	2,026	585	0	0	0	0
Residual Fuel Oil	0	001	0	0	0	295	2,361	193	828	1,340	349	258	0	0	o
Naphtha and Other Oils for Petro. Feed. Use	13	0	0	0	0	0	32	0	0	35	83	0	0	0	0
Special Naphthas	o	0	٥	16	0	0	275	33	163	73	191	0	0	0	0
Lubricants	o	82	0	36	77	0	411	0	335	76	8	ස	0	0	2
Waxes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asphalt and Road Oil	0	0	0	143	0	0	172	0	F	161	745	0	0	0	0
Miscellaneous Products	54	37	0	0	131	0	174	13	78	8	49	0	0	0	40
Total	2,355	589	0	499	174	295	21,489	1,177	4,342	15,970	5,182	508	3,672	0	16,575

Source: See Explanatory Notes on Data Collection and Estimation.

Table 24. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker and Barge Between PAD Districts, June 1983 (Thousands of Barrels)

	<u>a</u>	PAD District	=	PA	PAD District II	=	å [PAD District III	=	PA	PAD District IV	2	A A	PAD District V	>
Commodity	Receipts into PADD 1	Ship- ments from PADD I	Net Receipts PADD 1	Receipts into PADD II	Ship- ments from PADD II	Net Receip Receipts into PADD II PADD	Receipts into PADD III	Ship- ments from PADD III	Net Receipts PADD III	Receipts into PADD IV	Ship- ments from PADD	Net Receipts PADD IV	Receipts into PADO v	Ship- ments from PADD V	Net Receipts PADD V
Crude Oil (Tanker and Barge only)	4,095	0	4,095	1,658	0	1,658	16,465	2,081	14,384	•	0	0	10	20,137	-20,137
Petroleum Products	. 80,178	8,669	71,509	37,696	10,182	27,514	6,281		-101,432	1,968	3,036	-1,068	3,587	110	3,477
Natural Gasoline	0	0	0	612	123	483	42	607	478	0	ιΩ	ιĊ	0	0	0
Unitactionaled Stream		0	0	1,652	442	1,210	804	1,126	-322	0	888	888	٥	0	0
Flant Condensate	0	0	0	2	0	23	0	2	-2	0	0	0	0	0	0
Liquetied Petroleum Gases	1,336	0	1,336	7,101	2,173	4,928	1,803	8,102	-6,299	35	0	32	0	0	0
Unimished Oils	1,153	3	1,069	9	0	10	74	1,153	-1,079	0	0	0	0	0	0
Motor casoline Blending Components	79	0	2	1,000	0	000,	0	1,079	-1,079	0	٥	0	0	0	0
Aviation Gasoline Blending Components	0	0	0	•	0	0	0	0	٥	0	0	0	0	0	0
Finished Motor Gasoline	49,368	6,056	43,312	16,880	4,619	12,261	2,033	59,300	-57,267	1,137	1,428	-291	1,985	0	1.985
Finished Leaded Motor Gasoline	21,851	3,359	18,492	9,406	2,467	6'838	1,163	27,508	-26,345	678	932	-254	1,168	0	1.168
Finished Unleaded Motor Gasoline	27,517	2,697	24,820	7,474	2,152	5,322	870	31,792	-30,922	459	496	6	817	0	817
rinished Aviation Gasoline	156	₩ ;	138	8	49	15	ន	338	-316	27	O	27	0	0	0
Naprina-Type Jet ruel	501	8	402	8	52	<u>6</u>	129	82	-69 2	0	87	-87	216	0	216
Kerosene-Type Jet Fuel	8,010	145	7,865	1,780	111	1,003	123	9,648	-9,525	250	133	387	270	0	270
Kerosene	262	4	248	4	0	\$	0	588	-288	0	0	0	0	0	0
Distrilate Fuel Of	15,556	1,962	13,594	6,385	1,088	5,297	687	19,865	-19,178	249	495	-246	533	0	533
Hesiqual Fuel Oil	2,361	2	2,261	349	295	\$	5	2,968	-2,868	0	•	0	553	0	553
rapilities and Outer Ons tor Petro.	:														
reedstock Use	\$	53	65	\$	ത	37	0	8	æ	0	0	0	0	0	0
Special Naphthas	291	0	291	191	16	175	0	466	98	0	0	0	0		· c
Lubricants	447	87	360	310	22	253	169	742	-573	0	0	c	, C.	2	4
Waxes	0	0	0	0	0	0	٥	٥	0	0	c	· c	3	Ċ	,
Asphalt and Road Oil	315	0	315	745	143	602	0	917	-917	0	• •	0	C) C	o c
Miscellaneous Products	299	91	208	103	256	-153	208	83	-15	0	0	0	0	, 4	, 4
Total All Products	84,273	8,669	75,604	39,354	10,182	29,172	22,746	22,746 109,794	-87.048	1.968	3.036	1,068	3 587	20 247 -16 650	-16 650
												1	1	,)

Table 25. Production of Residual Fuel Oil By Sulfur Content, June 1983 (Thousands of Barrels)

	8 8	24,947 2,837 7,272 14,838
	States	
PAD	West Coast	9,341 950 2,510 5,881
PAD	Pist. IV Mt.	246 24 92 130
	Total	10,847 1,069 2,419 7,359
	New	19 01 015
trict III	No. La.,	412 92 191 129
PAD District	La. Gulf Coast	3,674 468 1,308 1,878
	Texas Gulf Coast	6,120 456 434 5,230
	Texas	580 23 71
	Total	1,875 184 491 1,200
	Okla., Kans., Mo.	371 117 140
District	Minn. Wisc. Daks.	191 0 191
PA	Ind., III., Ky.	1,218 67 344 807
	Appala- chian #2	95 0 7 88
-	Total	2,638 610 1,760 268
DAD Dietriot	Appala- chian #1	160 33 1 126
ă	East	2,478 577 1,759
	Commodity	Residual Fuel Oil

Source: See Explanatory Notes on Data Collection and Estimation.

Table 26. Stocks of Residual Fuel Oil By Sulfur Content, June 1983 (Thousands of Barrels)

	ď	PAD District			PA	PAD District	=				PAD District	rict III			PAD	PAD	4 - 4 - 4 - 4
Commodity	East	East Appala- Coast chian	Total	Appala- chian #2	Ind., III., Ky.	Minn., Wisc., Daks.	Okta., Kans., Mo.	Total	Texas	Texas Gulf Coast	Coast	No. La., Ark.	New	Total	Rocky Mt.	West Coast	States
Residual Fuel Oil – 0.00 to 0.30% Sulfur Refinery Bulk Terminal	379	4	4,472 4,892	0	107	0	45	152 33 185	27	27.1	⁵⁸	۱۱ ۳	E 1	593 0 593	123 0 0 123	612 0 612	1,900 4,505 6,405
Residual Fuel Oil — 0.31 to 1.00% Sulfur Refinery Bulk Terminal Total	2,160	4	2,164 6,595 8,759	2	620	• 	₈	724 594 1,318	11 1	1,305	739	۱۱۶	0	2,229 2,761 4,990	81 0 18	1,836 520 2,356	7,034 10,470 17,504
Residual Fuel Oil — Greater than 1.00% Sulfur Refinery Bulk Terminal Total	1,265	<u>8</u> 1 1	1,356 8,961 10,317	ო 	1,122	143	⁶⁹	1,327 911 2,238	1 83	3,062	1,728	8 11	1 49	4,987 2,550 7,537	233 0 233	4,239 1,185 5,424	12,142 13,607 25,749

Sources: See Explanatory Notes on Data Collection and Estimation.

— Not Applicable

Table 27. Movements of Residual Fuel Oil by Tanker and Barge Between PAD Districts, By Sulfur Content, June 1983 (Thousands of Barrels)

		rom I to		<u>.</u>	From 11 to				From III to	ll to			"	From V to	1
Commodity	=	=	>	- .	E	>	_	New	Cent	Low	=	>	_	=	=
Residual Fuel Oil	0000	8008	0000	0000	0000	295 0 0 295	2,361 0 569 1,792	193 0 0 193	828 0 322 506	1,340 0 247 1,093	349 136 167 46	258 0 0 258	000	0000	0000

Source: See Explanatory Notes on Data Collection and Estimation.

Table 28. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, June 1983 (Thousands of Barrels)

		Residua	Residual Fuel Oil	
Country	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
Arah OPEC				
Algeria	1,571	0	0	1,571
Kuwait	0 6	0 0	00	o c
Oatar	o c	-	208	528
Saudi Arabia		0	0	0
Subtotal Arab OPEC	1,57,	0	528	2,100
Other OPEC				
Ecuador	190	0	120	310
Gabon		0	0	0
Indonesia	1,255	57 0	00	1,267
	-	> C	.	0
Veneziela	434	491	2,591	3,516
her OPEC	1,879	503	2,711	5,093
Other				
Angola	0	316	0	316
Australia	۰ إ	o į	0 0	0 6
Bahamas	675	, 255 255	> C	930
DOINIA	343	o		343
Brine	0	0	0	0
Canada	470	279	161	910
Egypt	0	0 (0 0
France	0 0	5 C	> C	o c
Malayeia	. 0	4		্ ধ্ব
Mexico	0	0	321	321
Netherlands	0	0		0
Netherlands Antilles	, 220 250	352	2,936	3,508
Norway	> C		o	0
Deople's Republic of China		00	0	0
Peni	642	0	0	642
Puerto Rico	0	0	.	0 (
Romania	0	0 (-	-
Spain	9 6	> C	> C	0 0
Syna	5 , c	> C	801	821
I Trick of Contraction	> C	528	132	361
Virgin Jelande	220	1,334	474	2,358
Yudoslavia	0	0	0	0
Zaire	0	0	0	0 0
Other Western Hemisphere	525	961	223	1,410
Other Eastern Hemisphere	3 965	4.034	5.079	13,078
Total Imports	7,416	4,536	8,318	20,270

(s) Less than 500 barrels.

Note: Total may not equal sum of components due to independent rounding.

Sources: See Explanation, Notes on Data Collection and Estimation.

Table 29. Imports of Residual Fuel Oil by Sulfur Content by State of Entry, June 1983 (Thousands of Barrels)

		Residue	Residual Fuel Oil	
State	0.00 to 0.30%	0.31 to 1.00%	Greater Than 1.00%	Total
PAD District I	5,550	3,739	7,416	16,706
Connecticut	0	0	0	0
Florida	0	805	983	1,788
Georgia	0	0	0	0
Maine	0	0	733	733
Maryland	0	229	0	229
Massachusetts	0	,	1,903	1,903
New Jersey	964	345	998	2,175
New York	4,399	1,374	1,461	7,233
North Carolina	0	0	419	419
Pennsylvania	187	987	o	1,174
Rhode Island	0	0	0	0
South Carolina	O	0	66	66
Vermont	٥	0	0	0
Virginia	0	0	951	951
PAD District II	470	c	, F	581
Illinois	143	• 6		142
	243	o c	0	243
Minnesota	m	. 0	· 04	ıc
North Dakota	(s)		27	27
Ohio	85	0	85	164
PAD District III	986	378	122	2,135
Louisiana	-	0	0	-
Texas	985	378	771	2,134
PAD District IV	c	c	σ	σ
Montana	0	00	ာတ	0
PAD District V	409	450	Ξ	840
	2	0 7 +	: °	
California	> C	> c	> C	o c
Hawaii) (8)	> 6	, ,	431
Washington	409	0 0	-0	409
All PAD Districts	7.416	263.4	0	076.06
	0124	4,536	0100	0 1-0-

(s) Less than 500 barrels.
Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Estimation.

Glossary

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Definitions of Petroleum Products and Other Terms

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; CH-(CH)n-OH. Alcohol includes methanol and ethanol.

Alkylation. A refinery process for chemically combining isoparaffin with olefin hydrocarbons. The product, alkylate, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Deg API =
$$\frac{141.5}{\text{sp gr }60\text{F}/60\text{F}}$$
 - 131.5

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene.

Asphalt. A dark-brown-to-black cement-like material, containing bitumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. The conversion factor for asphalt is 5.5 barrels of 42 U.S. gallons per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Aviation Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation gasoline.

Aviation Gasoline, Finished. All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products equivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for converting petroleum coke, asphalt and wax to barrels are given in the definitions for these products.

Barreis per Calendar Day. The maximum number of barrels of Input that can be processed in a twenty-four hour period after making allowances for the following ilmitations: downstream limitations, environmental constraints, types and grades of inputs, planned and unplanned downtime, and types and grades of products.

Barrels Per Stream Day. The amount a unit can process running at full capacity under optimal crude and product slate conditions.

Bi-metallic. A term used to describe a type of catalyst. A catalystic process utilizing a catalyst comprised of two metals (e.g., platinum, rhenlum).

Butane. A normally gaseous paraffinic hydrocarbon, C4H10. It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

Isobutane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that bolis at a temperature of 10.9 degrees F. This classification includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery gas streams.

Normal Butane. A saturated straight-chain hydrocarbon of butane. It is a colorless paraffinic gas that boils at a temperature of 31.1 degrees F. This classification includes mixtures of gases that contain 80 percent or more normal butane.

Other Butanes. All butanes not included as normal butane or isobutane.

Butane-Propane Mixtures. Mixtures consisting exclusively of butane and propane that conform to ASTM Specification D1835 and Gas Processors Association Specification for commercial butane-propane mixtures. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C4H8, recovered from refinery processes.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil.

Catalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel and/or high grade fuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Catalytic Hydrotreating. A process for treating petroleum fractions (e.g., distillate fuel oil and residual fuel oil) and unfinished oils (e.g., naphthas, reformer feeds and heavy gas oil) in the presence of catalysts and substantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciably; the conversion of low-octane

gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher octane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g., platinum, alumina).

Coal. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes lignite, bituminous coal, and anthracite coal which conform to ASTM Specification D388.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condensing of the fractions by cooling.

Crude Oil (Including Lease Condensate). A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, glisonite and oil shale. Drip gas is also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign according to the following:

Domestic. Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States.

Delayed Coking. A process to produce low Conradson carbon gas for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 diesel fuel.

No. 1 Fuel Oil. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D396 specifies for this grade maximum distillation temperatures of 420 degrees F. at the 10-percent point and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil. A distillate fuel oil for use in atomizingtype burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D396 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Oils. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975;

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under wide variations in speed and load, includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specifications D975.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees F. for use in high-speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D975.

No. 4 Fuel Oil. A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees F. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D975.

Eastern Hemisphere. That half of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa, and Australia. The Hawallan Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethane. A normally gaseous paraffinic compound (C2H6) extracted from natural gas and refinery gas streams. "Ethane" includes any products containing 90 percent liquid volume or more ethane.

Ethane-Propane Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume. It is extracted from natural gas and refinery gas streams.

Ethylene. An olefinic hydrocarbon, (C2H4) recovered from refinery or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and alcohol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-grade oils into lighter products.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished aviation or motor gasoline.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. Derives its name from having originally been used in the manufacture of illuminating gas. Now supplies distillate-type fuel oils and diesel fuel, also cracked to produce gasoline.

imported Crude Oil Burned as Fuel. The amount of forelgn crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sand oil, glisonite, and oil shale.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butane into isobutane, an alkylation process feedstock, and normal pentane and hexane into isopentane and isohexane, high-octane gasoline components.

Kerosene. A petroleum distillate that boils at a temperature between 300-550 degrees F., that has a flash point higher than 100 degrees F. by ASTM Method D56, that has a gravity range from 40-46 degrees API, and that has a burning point in the range of 150-175 degrees F. Included are the two classifications recognized by ASTM D-3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil which have properties similar to No. 1 fuel oil, but with a gravity of about 43 degrees API and a maximum end-point of 625 degrees F. Kerosene is used in space heaters, cook stoves, and water heaters and is suitable for use as an illuminant when burned in wick lamps.

Kerosene-Type Jet Fuel. A quality kerosene product with an average gravity of 40.7 degrees API, a 10 percent distillation temperature of 400 degrees F. It is covered by ASTM Specification D1655 and Military Specifications MIL-T-5624L (Grades JP-5 and JP-8). A relatively low-freezing point distillate of the kerosene type; It is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquefied Petroleum Gases (LPG). Propane, propylene, butanes, butylene, butane-propane mixtures, ethane-propane mixtures, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate raw natural gas plant liquids.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration they are retained in the ilquid state. The reported categories are ethane and/or ethylene, propane and/or propylene, butane and/or butylene, butane-propane mixtures, and isobutane. Excludes still gases used for chemical or rubber manufacture which are reported as a petrochemical feedstock and also excludes ilquefied gases ready for blending into gasoline which are reported as gasoline blending components. Liquefied refinery gases are reported for use as petrochemical feedstocks or other uses.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Lubricants includes all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. The three categories include Bright Stock, Neutral, and Other.

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from residuum by a treatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate lubricating oil base stock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, acid treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coastal, and red oils.

Middle Distillates. A general classification that includes distillate fuel oil and kerosene.

Miscellaneous Products. Includes all finished products not classified elsewhere, e.g., petrolatum, absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, speciality oils and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool gasoline is included in this category.

Motor Gasoline, Finished. A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, that have been blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D439 or Federal Specification VV-G-1690B, include a boiling range of 122 degrees to 158 degrees F. at the 10-percent point to 365 degrees to 374 degrees F. at the 90-percent point and a Reid vapor pressure range from 9 to 15 psl. Motor gasoline includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Leaded Gasoline. Contains more than 0.05 gram of lead per gallon or more than 0.005 gram of phosphorus per gallon. The actual lead content of any given gallon, however, may vary as a function of the size of the producer and company according to specific Environmental Protection Agency waiver provisions. Premium and regular grades are included, depending on the octane rating. Includes leaded gasohol. Blendstock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Finished Unleaded Gasoline. Contains not more than 0.05 gram of lead per gallon and not more than 0.005 gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating. Includes unleaded gasohol. Biend stock is excluded until blending has been completed. Alcohol that is to be used in the blending of gasohol is also excluded.

Gasohol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gasoline, Total. Includes finished leaded motor gasoline, finished unleaded motor gasoline, motor gasoline blending components, and gasohol.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha bolling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade JP-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

Natural Gas. A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butane, natural gasoline, etc., and to control the quality of natural gas to be marketed.

Natural Gas Plant Liquids. Natural gas liquids recovered from natural gas in gas processing plants, and in some situations, from natural gas field facilities. Natural gas liquids extracted by fractionators are also included. These liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials, and are classified as follows: Ethane, propane, ethane-propane mix, isobutane, butane, butane-propane mix, isopentane, natural gasoline, plant condensate, unfractionated stream, and other products from natural gas processing plants (i.e., products meeting the standards of finished petroleum products produced at natural gas processing plants, such as finished

motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oli, and miscellaneous products).

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes Isopentane which is a saturated branch-chain hydrocarbon, C5H12, obtained by fractionation of natural gasoline or isomerization of normal pentane.

OPEC. The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of Oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Idonesia, Iran, Iraq, Kuwalt, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Operable Distillation Capacity. The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of inputs, limitations of downstream facilities, scheduled and unscheduled downtimes, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.

Other Hydrocarbons. Materials received by a refinery and consumed as raw materials. Includes hydrogen, coal tar derivatives, glisonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is excluded.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are Naphtha-less than 400 degrees F. end-point and Other oils-over 400 degrees F. end-point.

Naphtha-Less Than 400 Degrees F. End-Point. A naphtha with an end point of less than 400 degrees F. that is reported as used as a petrochemical feed-stock.

Other Oils-Over 400 Degrees F. End-Point. Oils with an end point over 400 degrees F. that is reported as used as a petrochemical feedstock.

Petroleum Coke. A residue, the final product of the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion factor is five barrels of 42 U.S. gallons per short ton.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This green coke may be sold or further purified by calcining.

Catalyst Coke. In many catalytic operations (i.e., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (Including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, natural gasoline and isopentane, plant condensate, unfractionated stream, liquefied petroleum gases, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distiliate fuel oil, residual fuel oil, naphtha less than 400° F. end-point, other oils-over 400° F. end-point, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscelianeous products.

Petroleum Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas ilquids, other hydrocarbons, and alcohol.

Plant Condensate. One of the natural gas iliquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Primary Stocks. Stocks of crude oil or petroleum products held in storage at (or in) leases, refinerles, natural gas processing plants, pipelines, tankfarms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in transit from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks excludes stocks of foreign origin that are held in bonded warehouse storage.

Propane. A normally gaseous paraffinic compound, C3H8, which includes all products covered by NGPA Specification for commercial and HD-5 propane and ASTM Specification D1835. It is used primarily as a fuel and as a petrochemical feedstock.

Propylene. An olefinic hydrocarbon, C3H6, recovered from refinery or petrochemical processes.

Residual Fuel Oil. The topped crude of refinery operation which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO Symbol F-77), and Bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes. Includes imported crude oil to be burned as a fuel.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in

six grades from 0, the most liquid, to 5, the most viscous.

Special Naphthas. All finished products within the gasoline range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point and have a boiling range of 90 degrees to 220 degrees F. Special naphthas includes all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gas produced in refinerles by distillation cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, butane, butylene, propane, propylene, etc. Still gas is reported for petrochemical feedstock use and/or refinery fuel use.

Petrochemical Feedstock Use. Includes all refinery streams which are used by chemical or rubber manufacturing operations for further processing, less the amount of such streams returned to the source refinery. Finished petrochemical products are not included. For example, polyethylene, butadlene, etc., are considered petrochemical products; therefore, only their feed-stock equivalents are included.

Fuel Use. All other still gas.

Strategic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unfinished Oils. Includes all oils requiring further processing, except those requiring only mechanical blending.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Vacuum Distiliation. Distiliation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique, with its relatively low temperatures, prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary

distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material derived from petro-leum distillates or residues by such treatments as chilling, precipitating with a solvent, or de-oiling. It is light-colored, more-or-less translucent crystalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Includes all marketable wax whether crude scale or fully refined. The three grades included are microcrystalline, crystalline-fully refined, and crystalline-other. The conversion factor is 280 pounds per 42-gallon barrel.

Microcrystalline Wax. Wax extracted from certain petroleum residues having a finer and less apparent crystalline structure than paraffin wax and having the following physical characteristics:

Penetration at 77 degrees F. (D-1321)-60 maximum. Viscosity at 210 degrees F. in Saybolt Universal Sec-

onds (SUS) (D-88)-60 SUS (10.22 centistokes) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D-721)-0.5 percent maximum. Other + 20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximum. Oil Content (D-721)-0.51 percent minimum to 15 percent maximum.

Western Hemisphere. That half of the earth that includes North and South America and the surrounding waters.

Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts:

PAD District I

East Coast: District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following countles of the State of New York: Cayuga, Tompkins, Chemung and all countles east and north thereof. Also the following countles in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all countles east thereof.

Appalachian #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

PAD District II

Appalachian #2: The following countles of the State of Ohio: Erle, Huron, Crawford, Marion, Delaware, Franklin, Pickaway, Ross, Pike, Scioto, and all countles east thereof.

Indiana—Illinois—Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and that part of the State of Ohio not included in the Appalachian District.

Minnesota—Wisconsin—North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Guif Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Guif Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following countles of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following countles of the State of Alabama: Mobile and Baldwin.

North Louisiana—Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippl, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

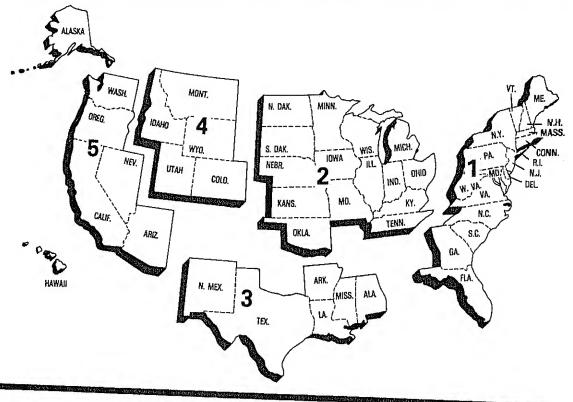
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyomlng, Utah, and Colorado.

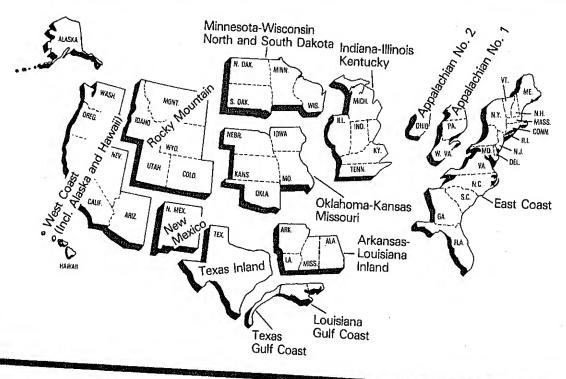
PAD District V

West Coast: The States of Washington, Oregon, Callfornia, Nevada, Arizona, Alaska, and Hawaii.

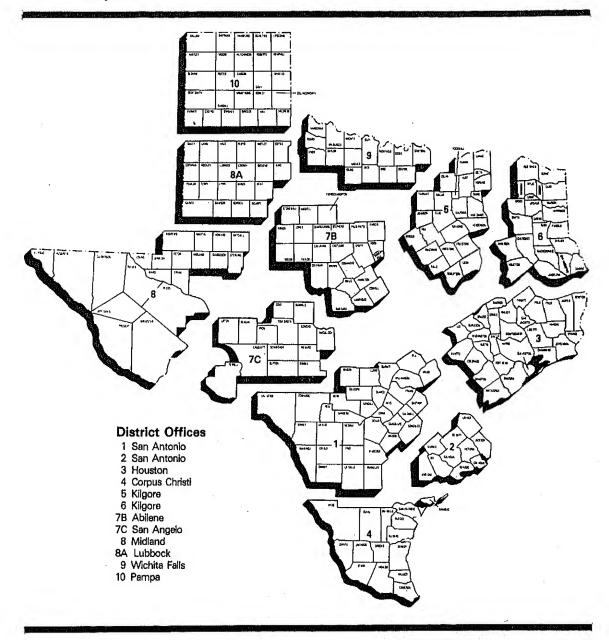
Petroleum Administration for Defense (PAD) Districts



Bureau of Mines Refining Districts



District Map Oil and Gas Division Railroad Commission of Texas



Explanatory Notes

Note 1: Data Collection Methodology

Background

Beginning in January 1983, the Energy Information Administration (EIA) unified its petroleum supply data collection activities into the Petroleum Supply Reporting System (PSRS). The PSRS represents a family of data collection survey forms, data processing systems and publication systems that have been consolidated to achieve comparability and consistency throughout. The primary focus of the consolidation has been to revise the weekly and monthly survey reporting forms to assure consistency in form layout, preparation instructions, and definitions. As a result, a new set of survey forms were implemented in January 1983. The following are the new form numbers and their corresponding predecessor forms:

New Form Number EIA-800	Name Weekly Refinery Re-	Old Form Number EIA-161
EIA-801	port Weekly Bulk Termi- nal Report	EIA-162
E1A-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude Oll Stocks Report	EIA-164
EIA-804	Weekly Imports Re-	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	_
EIA-810	Monthly Refinery Report	EIA-87
EIA-811	Monthly Bulk Terml- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude Oil Report	EIA-90
ERA-60	Monthly Imports Report	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-816	Monthly Natural Gas Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroleum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly basis. Data from the WPSRS are published in the Weekly Petroleum Status Report (WPSR) and are also used to calculate the preliminary statistics in the "Summary Statistics" section of the Petroleum Supply Monthly (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms EIA-810-813, 815-817 and ERA-60 comprise the Monthly Petroleum Supply Reporting System (MPSRS). These surveys collect detailed refinery operations data, refinery, bulk terminal and pipeline stocks data, crude oil and petroleum product imports data and movements of petroleum products and crude oil between PAD Districts data. These surveys are the primary source of data for the "Summary Statistics" and "Detailed Statistics" sections of the *PSM*. A description of MPSRS survey forms follows in Note 1.2.

Data are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the preparation of the *PSM*. A description of the Census data follows in Note 1.3.

Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

Background

The EIA first began publishing weekly petroleum supply statistics in April 1979 in response to the Iranian oil crisis. Initially, the published data were taken from the American Petroleum Institute (API) Weekly Statistical Bulletin. However, in January 1980 the EIA began to publish weekly statistics from its own surveys, with the exception of imports statistics which the EIA did not begin collecting until June 1980.

The weekly surveys collect data comparable to those collected on a monthly basis. Selected petroleum companies report weekly data to the EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Form EIA-804, the importer of record reports each shipment entering the United States. On Form EIA-805, a company shipping unfinished oils and finished petroleum products into the United States from Puerto Rico reports each shipment. Current weekly data and the most recent monthly data are used to estimate the totals that are published in the Weekly Petroleum Status Report.

Sample Frame

The sample of companies that report weekly is selected from the universe of companies that report on the comparable monthly surveys. Sampled companies report data only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude oil distiliation capacity and produce some refined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample size is 215.

EiA-801: Based on the EiA-811 universe, which includes ail bulk terminal facilities in the United States and its territories that have either a total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The selected sample size is 93.

EIA-802: Based on the EIA-812 universe, which includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that transport only natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies that transport products covered in the weekly survey are included. The selected sample size is 65.

EIA-803: Based on the EIA-813 universe, which consists of all companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-804: Based on the ERA-60 universe, which includes all importers of record of crude oil and petroleum products into the United States and Puerto Rico. The selected sample size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished oils and petroleum products into the United States from Puerto Rico. Four companies report.

Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EIA-802, which uses the monthly universe in its entirety. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous 12-month period. Companies are chosen for the sampling, beginning with the largest and adding companies until the total sample covers 90 percent of the total for the previous time period for each product published in the Weekly Petroleum Status Report.

Collection Methods

Data are collected by mall, mailgram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 a.m. All canvassed firms and terminal operations companies must file by 5 p.m. on the following Monday.

Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M_t) is divided by the amount reported by the sample of companies for the most recent month (M_s) . The result is multiplied by the amount reported by the sample of companies for the current week (W_s) . The answer, W_t , is an estimate of the amount that would have been reported by all companies for the current week if all companies reported each week.

$$W_t = \frac{M_t}{M_s} (W_s)$$

This procedure is used to estimate total weekly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly variable on a company-by-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unilcensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

Background

The MPSRS was implemented in January 1983 as the result of an extensive effort to integrate the collection and processing of petroleum supply data that have been collected on other survey forms for many years. The collection of monthly petroleum supply statistics began as early as 1918 when the Bureau of Mines (BOM) began collecting data on refinery operations and crude oil stocks and movements. The collection systems

were further expanded to include natural gas plant liquids production and storage in 1925, imports of crude oil and petroleum products and storage and movements of petroleum products in 1959, and tanker and barge movements of crude oil and petroleum products in 1964. Since their inception, each survey has undergone numerous changes, but the MPSRS is the first effort to make them all consistent and comparable.

Respondent Frame

EIA-810: All petroleum refinerles and plants that produce finished motor gasoline through the mechanical biending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawaiian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 States and the District of Columbia, Puerto Rico, and the Virgin islands that (a) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regardless of ownership of the material. Approximately 328 respondents report on the EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interstate, intrastate and intracompany pipelines) in the 50 States and the District of Columbia. Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which carry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water.

EIA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico into the 50 States and the District of Columbia.

Import data from the ERA-60 and EIA-815 are Integrated into the Import statistics reported in the *PSM*.

EIA-816: All operators of facilities designed to extract liquid hydrocarbons from natural gas stream (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butane, natural gasoline, etc. (fractionators). Approximately 990 respondents report on the EIA-816.

EIA-817: All known companies and plants that have custody of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panama Canal. There are about 50 respondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 firms as of July 31, 1982. However, only a selected 250 importers must report each month regardless of import activity. All others must report only for a month in which they actually had imports. The respondent universe for this survey is updated whenever an import license is granted by the Office of Oil imports of the ERA.

EIA utilizes a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review industry publications such as the Oil and Gas Journal and LP Gas Almanac for information on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, letters from respondents indicating changes in status and information received from survey systems operated by other offices.

Periodically an extensive survey study is conducted to completely refresh the frames. This involves consolidating information from every known source including State agencies, federal agencies (e.g., EPA, Corps of Engineers, Census Bureau, etc.), and private industry directories. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data published from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be postmarked by the 20th day following the end of the report month, with the exception of the EIA-815 and ERA-60 which are due 15 work days following the end of the report month. Telephone follow-up calls are made to non-respondents prior to the publication deadline, for their data. An automated mailing list is maintained and is used to monitor receipt of the forms.

Imputing Missing Data

Imputation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous month's ending stocks value is used for both the current month's beginning stocks and the current month's ending stocks. In the event that the previous month's data were estimated, the respondent is contacted and requested to submit estimates, if necessary, to be followed by submission of actual data. Data for nonrespondents on the EIA-815 and 817, and ERA-60 are not imputed.

Response Rates

As of the filing deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite processing, a certified submission is still required. Names of companies that fall to file for 2 consecutive months are forwarded for further noncompliance action.

In July 1982, the ERA-60 survey had a response rate of 98 percent by the filing deadline. The universe was 1,100 firms at that time. (Because this is a dynamic survey, the universe is constantly changing.) Standard follow-up of nonrespondents is made to insure that all reports are received, since data are not imputed for nonrespondents. In addition, response is cross-checked with response on the Petroleum Licensing Decrementation System (PLDS), a listing of each month's importers. The response rate is generally 98 to 99 percent by the time the data are first published.

Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

Background

Each month the EIA purchases magnetic tapes of aggregated import and export statistics from the Bureau of the Census. These data provide the only source of export statistics and are used to augment the Import data collected by the EIA. Export statistics and Import data from the Census tapes on liquefled petroleum gases, bonded ships bunkers and military offshore use are published in the *PSM*.

Import Statistics (IM-145)

Coverage

The import statistics reflect both government and non-government imports of merchandise from foreign countries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico), without regard to whether or not a commercial transaction is involved. In general, the statistics record the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of transactions that are excluded from the statistics:

- Merchandise in-transit through the United States, when documented with Customs as an in-transit movement.
- 2. Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States. (U.S. possessions include Puerto Rico, the Virgin Islands, Guam, and American Samoa.)
- U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrawal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as *Imports for Consumption*. Imports for consumption are a combination of entries for immediate consumption and withdrawals from warehouses for consumption. With certain exceptions as indicated above, these data generally reflect the total of commodities entered into U.S. consumption channels.

Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instances where the country of origin cannot be determined, the transactions are credited to the country of shipment.

Export Statistics (EM-522 and EM-594)

Coverage

The export statistics reflect both government and non-government exports of domestic and foreign merchandise from the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation involves a commercial transaction. In general, the statistics record the physical movement of merchandise out of the United States to foreign countries, with the exception of the following types of transactions:

- 1. All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- 2. Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipper's Export Declarations. Exporters are required to file Shipper's Export Declarations with Custom's officials. The only exceptions are those exporters who have been authorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export Declarations.

Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or addition:

Field Production is the sum of crude oil production (including lease condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refinerles.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Fleld production of natural gas plant liquids (NGPL), including finished petroleum products, is reported monthly on survey Form EIA-816, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. For survey description and other detail, see Explanatory Note 1.2.

Refinery Production of LRGs, ethane, and finished petroleum products is reported monthly on survey Form EIA-810, Monthly Refinery Report. Published production of these products equals refinery production minus refinery input. Refinery production of unfinished oils and of motor and aviation gasoline blending components appears on a net basis under refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. It should also be noted that refineries do not export production of crude oil, natural gasoline, isopentane, unfractionated stream, plant condensate, or other hydrocarbons.

Imports of crude oil and petroleum products are reported monthly on Form ERA-60, Report of Oil Imports Into the United States and Puerto Rico, and Form EIA-815, Shipments of Refined Products (Including Untinished Oils) from Puerto Rico to the United States. In addition, the Census Bureau Tabulation IM-145 summarizes import data from Customs import declarations reported on Customs Forms 7501 and 7505. The most prominent difference between the EIA and Census systems appears in imports of Ilquefied petroleum gases

(LPG), where the Census data show a much higher level of Imports than EIA data. This occurs because the ERA-60 respondent frame was built by monitoring importers of licensed products and LPGs are not Ilcensed products. Therefore, respondents that Import only LPGs have not been identified, and do not report these imports to the Department of Energy, Since these importers are required to file form 7501 with the U.S. Customs Service, EIA obtains data on imports of LPGs from Census Tabulation IM-145. Additional data taken from the IM-145 are relatively small quantities of naphthaand kerosene-type jet fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are stored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting system.

Stock Withdrawal (+) or Addition (-) is calculated by subtracting stocks at the end of the month from stocks at the beginning of the same month. (Note: The beginning stocks of one month are equal to the ending stocks of the previous month.) A positive result (+) would represent a withdrawal from stocks and an increase in petroleum supplies distributed for domestic consumption. A negative result (-) would represent a buildup of stocks and a reduction in the amount of petroleum supplies distributed for domestic consumption. For a description of survey forms used to make stock withdrawal or addition calculations see Explanatory Note 5.

Unaccounted-for Crude Oil is a balancing item that represents the difference between crude oil supply and disposition.

Crude oil supply is the sum of fleid production, imports and stock withdrawals or additions. Crude oil disposition is the sum of exports, refinery input, losses and product supplied. Unaccounted-for crude oil is calculated by subtracting crude oil supplies from crude oil disposition. A positive result indicates that refiners and exporters reported use of more crude oil than was reported to have been available to them. (This occurs, for example, when imports are undercounted due to late reporting or other problems.) A negative result would indicate that more crude oil was reported to have been supplied to refiners and exporters than they reported used.

Note 3: Domestic Crude Oil Production

Data for the Crude Oll Production System (COPS) are reported to the Department of Energy by each of the State conservation agencies, which collect crude oil production values for tax purposes. The U.S. Geological Survey reports the volume of crude oil that is produced offshore in Federally-owned waters. With the exception of ten State conservation agencies, all of these reports are received monthly. After each calendar year, these monthly numbers are updated using the annual reports

from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are Indiana, Kentucky, Missourl, Arkansas, Utah, New York, Ohio, Pennsylvania, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their historical annual crude oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on crude oil production for the most recent month for which COPS values are available. In order to present more timely crude oil production values, the EIA's Dailas Field Office prepares a series of State level estimates which are based on historical production patterns and are summed to obtain the monthly crude oil production values shown in the summary statistics of this publication.

The Individual State level estimates are either exponential curve fitted projections based on recent data or are constant level projections based on the average production rate during a recent time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Refinery inputs of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Refinery Report. Published inputs of unfinished oils and of motor and aviation gasoline plending components equal refinery input minus relinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

exports of crude oil and petroleum products are comilled from Census Bureau tabulations EM-522 and IM-594. Exports include crude oil shipments to Puerto lico, the Virgin Islands, and the Hawalian Foreign rade Zone, which are obtained from refinery receipts exported on Form EIA-810, by refineries located in less places.

oduct supplied for each product is calculated by imming field production plus refinery production, us imports, plus stock withdrawal or minus stock dition, minus crude oil losses (plus net receipts nen calculated on a PAD District basis), minus re-

finery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported, (2) data were misreported or reported late, (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of Interdistrict movements was incomplete.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipelines as fuel oil. These data are reported on EIA-813, Monthly Crude Oil Report. Prior to January 1983, crude oil burned on leases and by pipelines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

Note 5: Stocks

Primary stocks of crude oil are the sum of ending stocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Oil Report. Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan crude oil in transit is also included. Stocks of crude oil are also reported weekly on Form EIA-800, Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816, Monthly Natural Gas Liquids Report, Form EIA-811, Monthly Bulk Terminal Report, and on Form EIA-812, Monthly Product Pipeline Report. Primary stocks of petroleum products do not include either secondary stocks held by dealers and jobbers or stocks held by consumers. Petroleum product stocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oil Stocks Report. For survey descriptions and other details, see Explanatory Notes 1.1 · 1.3.

Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, motor gasoline, distillate fuel oil, residual fuel oil, lique-fied petroleum gases, and other products provide the user with recent data as well as a summary of data from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonal variation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (on Arpll 1 and October 1), by basing the average ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 6 months.

For each data series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (I.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and irregularities as the original data. For crude oil stocks, the derived seasonal factors are very small relative to crude oil stock levels. Therefore, the seasonal factors for distillate fuel oil, residual fuel oil, liquefled petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975. 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the seasonal patterns in 1973, 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor gasoline, the evidence for the illustrated seasonal patterns for crude oil, distillate fuel oil, residual fuel oil, liquefied petroleum gases and other products is stronger than is the evidence for the illustrated seasonal patterns for motor gasoline.

In some cases, these seasonal patterns do not show a smooth transition from month to month. For example, the June factor for residual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

After seasonal factors are derived, the most recent 3-year period (from January through December or from July through June) is deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard error of the deseasonalized 36 months is calculated adjusting for extreme data points. The width of the average range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form EIA-817, Monthly Tanker and Barge Movement Report, and on Form EIA-813, Monthly Crude Oil Report. Petroleum product movements are reported on Forms EIA-817 and EIA-812, Monthly Product Pipeline Report. Net receipts is the difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For survey descriptions and other detail, see Explanatory Note 1.2.

Note 8: Preliminary Monthly Statistics

Weekly data (Forms EIA-800, 801, 802, 803, and 804) are used to estimate the most recent monthly values for the Summary Statistics section. Since some of the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refinerles and production of petroleum products for a specific month, the weekly estimates are weighted by the number of days of that month included in each week, then summed.

End-of-month stock levels of crude oil and the major products (motor gasoline, distillate fuel oil, and residual fuel oil) are calculated in a similar manner, but use only the two weekly reporting periods that cover the end-of-week stocks before and after the end of the month. The end-of-month stock level is calculated by first calculating the stock change between the two weeks. The dally stock change between the two end-of-week stock levels is then calculated. This number is multiplied by the weighting factor of the earlier of the two weeks (the week that covers the last day of the month of interest). This change is added to the earlier of the two end-of-week stock levels to estimate the end-of-month stock level.

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

Note 9: Notes on Tables

Note 9.1 Crude Oil and Petroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

• Crude OII and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labeled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Natural Gas Plant Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4.
- Petroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports In Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.

Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.

- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Gross Excl. SPR), SPR and Other Primary Stocks Withdrawal (+) or Addition (-), Unaccounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude losses and Product Supplied appear as labeled in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude Oil Ending Stocks appear in thousands of barrels in Table 2.
- Total imports appear in Table 4.

Note 9.3 Finished Motor Gasoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the nearest tenth.
- Ending Stocks appear in thousands of barrels in Table 2.

Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.

Ending Stocks appear in thousands of barrels in Table 2.

Note 9.5 Liquefied Petroleum Gases Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butane, butane-propane mixtures, ethane-propane mixtures, and isobutane. The statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stocks Withdrawai (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2.

Note 9.6 Other Petroleum Products Supply and Disposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfractionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distiliate fuel oil, and residual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.

- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawai (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied are aggregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrels in Table 2.

Note 9.7 Table 1. U.S. Petroleum Balance

- Lines (1) through (3): Crude oil (including lease condensate) production for *Alaska*, *Lower 48 States*, and *Total U.S.* are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production in the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48 States.
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unaccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquids (NGPL) *Production* equals field production of natural gas liquids (NGL) plus field production of finished petroleum products in Table 2.
- Line (15): NGPL Imports equals the sum of the im-

ports of natural gasoline and isopentane, unfractionated stream, and plant condensate imports in Table 2.

- Line (16): NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), and (16).
- Line (18): Unfinished oils and gasoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) for other hydrocarbons and alcohol, for unfinished oils, motor gasoline blending components, and aviation gasoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balancing Item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- Line (24): Total Production of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawai (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawai (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross Imports of Refined Products equals imports of LPG plus imports of finished petroleum products in Table 2.
- Line (26): Exports of Refined Products equals exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net Imports of Refined Products equals the difference between lines (25) and (26).

- Line (28): Total New Supply of Products equals crude oil input to refineries plus field production of NGPL and finished petroleum products; plus imports of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of natural gasoline and isopentane, unfractionated stream, and plant condensate; plus stock withdrawal (+) or addition (-) of other hydrocarbons and alcohol, unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus imports of unfinished oils, aviation gasoline blending components, and motor gasoline blending components; plus fleid production of other hydrocarbons and alcohol; plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products; minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrawal (+) or Addition (-) equals the sum of stock withdrawal (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
- Line (36): Other Products Supplied equals the sum of natural gasoline and Isopentane, unfractionated stream, plant condensate, aviation gasoline, naphtha < 400 Deg. F for petrochemical feedstock use, other oils > 400 Deg. F, for petrochemical feedstock use, special naphthas, lubricants, waxes, coke, asphalt, road oil, still gas, unfinished oils, motor gasoline blending components, aviation gasoline blending components and miscellaneous products supplied in Table 2.
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude Oil and Lease Condensate (Excluding SPR) and stocks held by the Strategic Petroleum Reserve, equals ending stocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of *Refined Products*, equals the sum of LPG and finished petroleum product stocks in Table 2.

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